

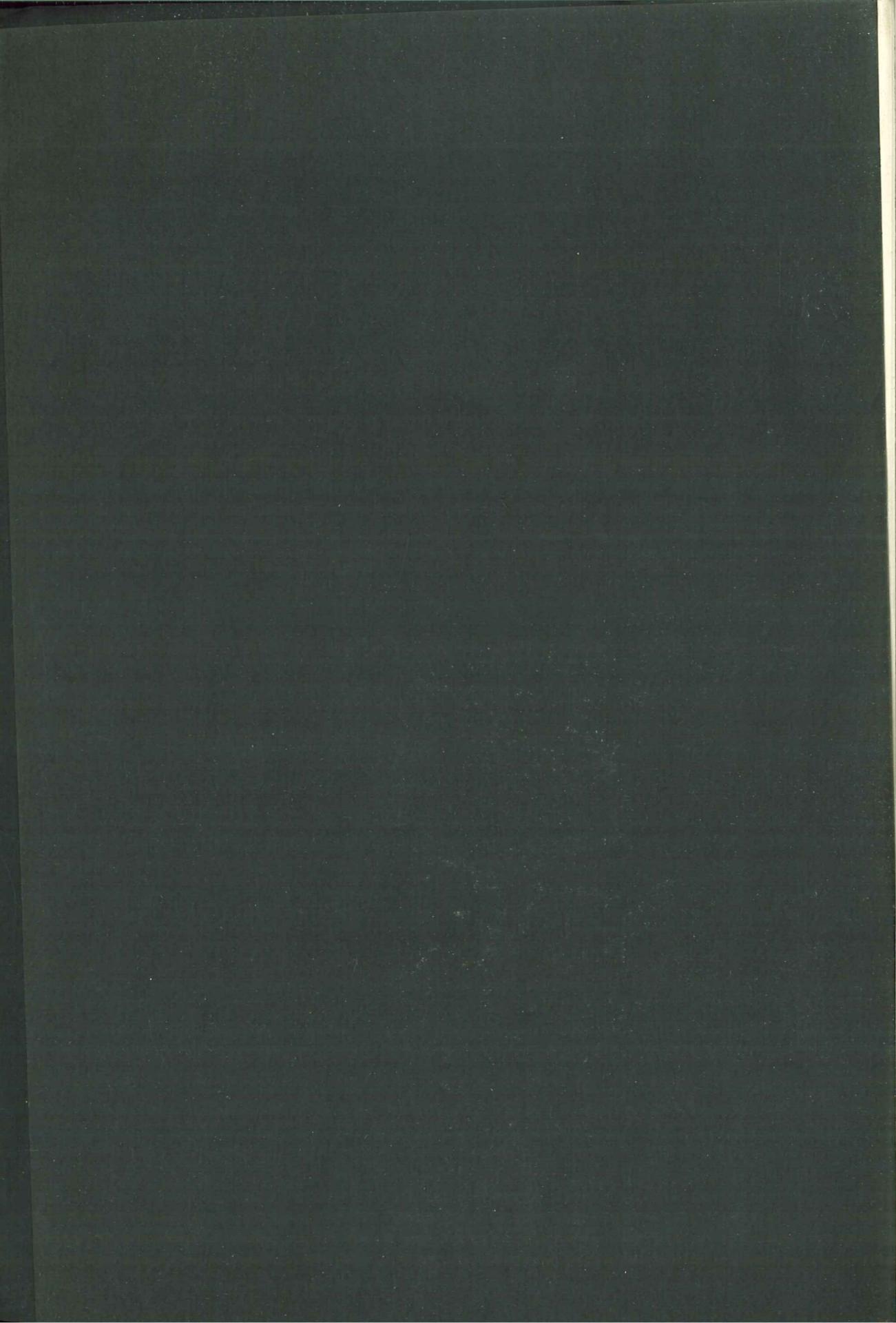
Catalog
No 16

FRANTZ

Guaranteed
BUILDERS HARDWARE

SILVER ANNIVERSARY EDITION

FRANTZ MANUFACTURING COMPANY
STERLING ILLINOIS



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FOREWORD

It is with pleasure that we present our Silver Anniversary Catalog of Frantz Guaranteed Builders' Hardware.

We have attempted to make this the most informative catalog we have ever published by using larger illustrations, with descriptions and tables that give all the facts.

On many pages throughout the book you will find new and distinctive items—on others, important changes and improvements in the design of items in previous catalogs. We believe you will find it interesting and it will serve to familiarize you with the fullness of the Frantz Line.

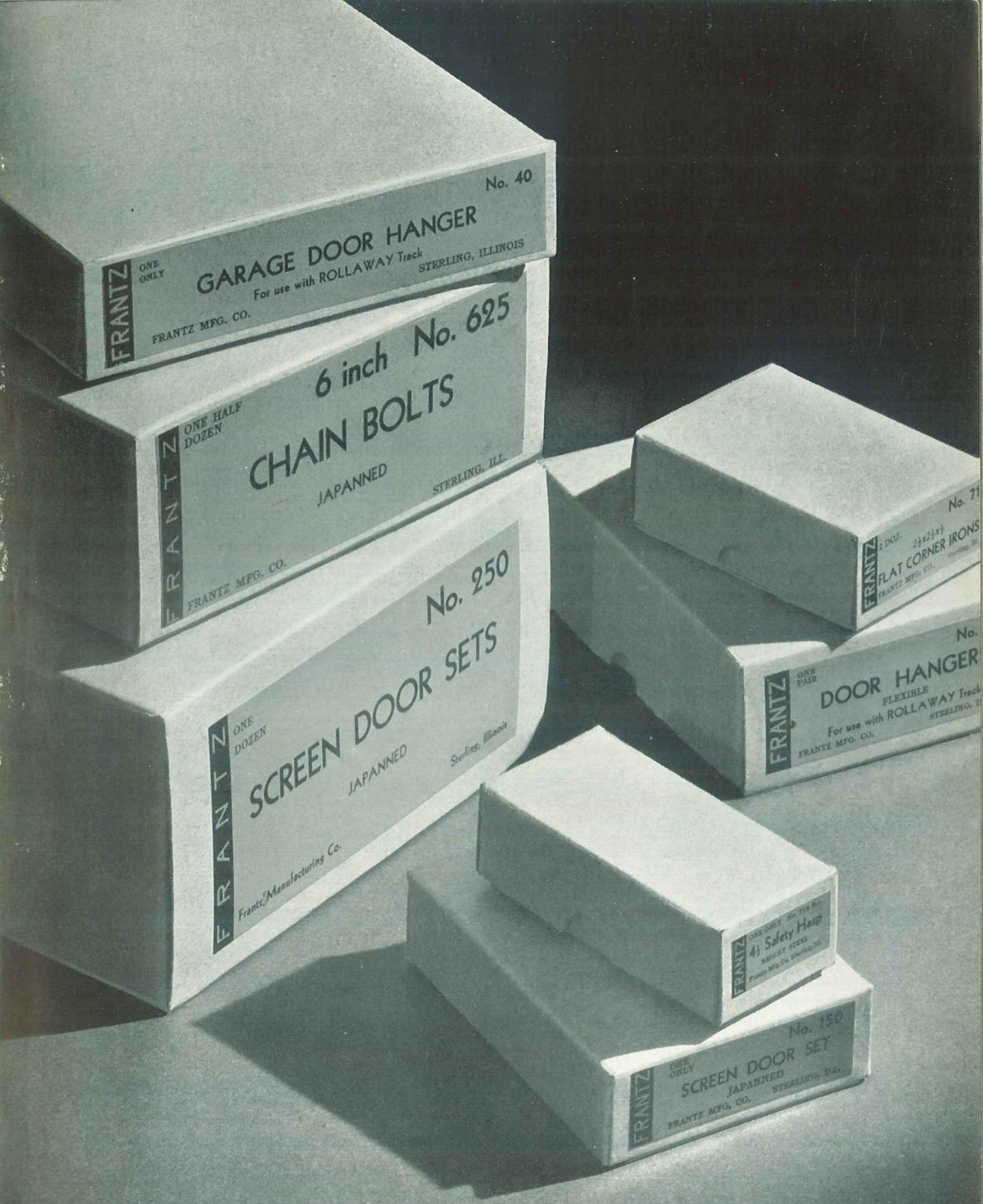
Every product in this new catalog is backed by the same broad guarantee of quality and service that has been responsible for the steady twenty-five year growth of our business.

FRANTZ MANUFACTURING COMPANY

Sterling

-:-

Illinois

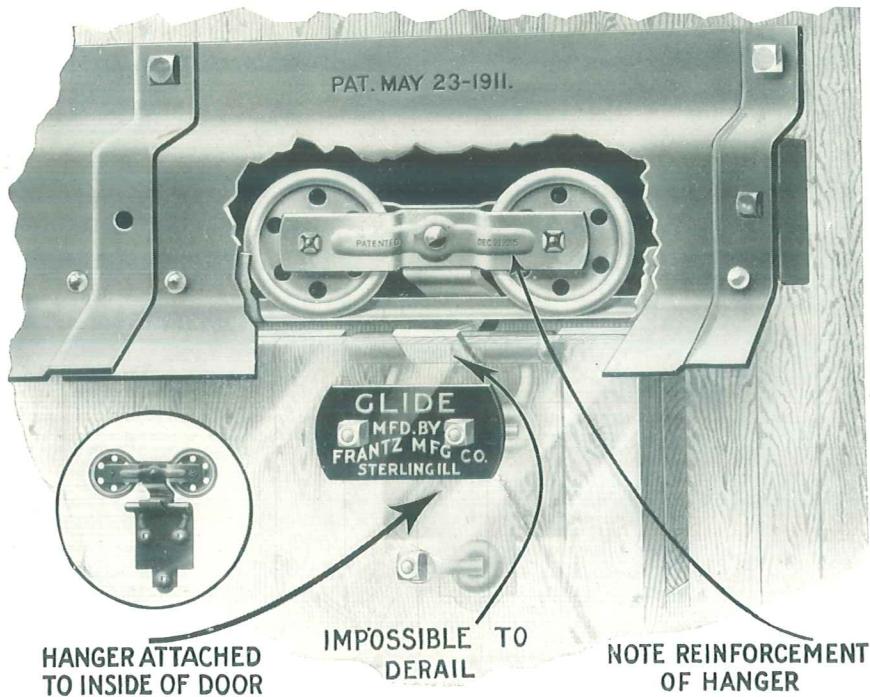


NO HARDWARE IS GENUINE FRANTZ
QUALITY WITHOUT THE *Red Label*

No. 1 GLIDE DOOR HANGER

No. 111 GLIDE TRACK

Showing Application



The photograph above shows the application of GLIDE Hangers and Track, and clearly illustrates the special features which have made them the most popular of all enclosed equipment for heavy doors.

GLIDE is the original water-shed Track. It is a combined track and cover in one piece, and is absolutely bird-proof.

The Hanger is unique, in that its drop strap is on the inside of the door, thus protecting it from the weather. This feature also permits any door, regardless of its thickness, to be carried, without blocking the track away from the building. Derailment of hangers is impossible.

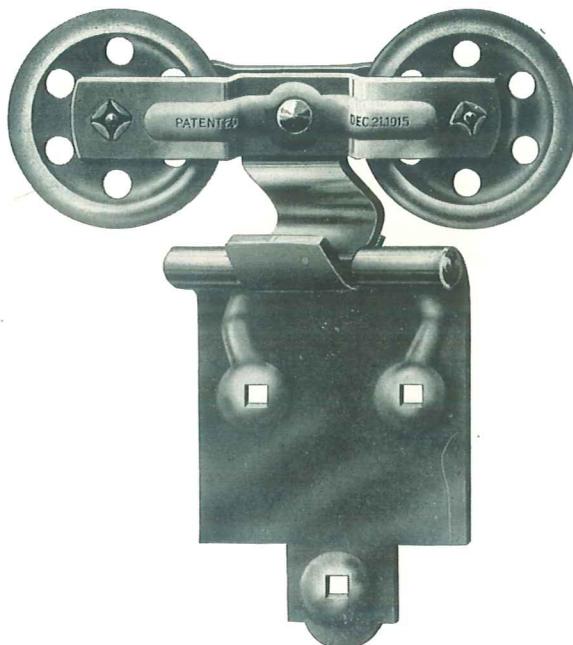
GLIDE Hangers and Track will give a life time of satisfactory service.

GLIDE DOOR HANGER

Flexible

No. 1

Patented



For doors weighing up to 1,000 pounds, and for use with GLIDE and HILO Tracks.

GLIDE Hangers are applied to the inside of the door. This not only gives protection from the weather, but also permits any thickness of door to be hung without blocking the track away from the building. Derailment is impossible.

Entire weight of the door is carried directly under the track lag screws, which assures the greatest possible strength and ease of operation.

Hanger has flexible swing-out joint to prevent damage to door should anything bump against it at the bottom.

Embossing on drop strap and hanger trucks gives additional strength.

Wheels are cast iron, 3-inches in diameter, with steel roller bearings and axles. All other parts are wrought steel.

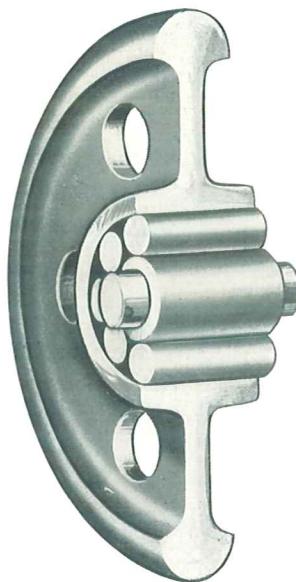
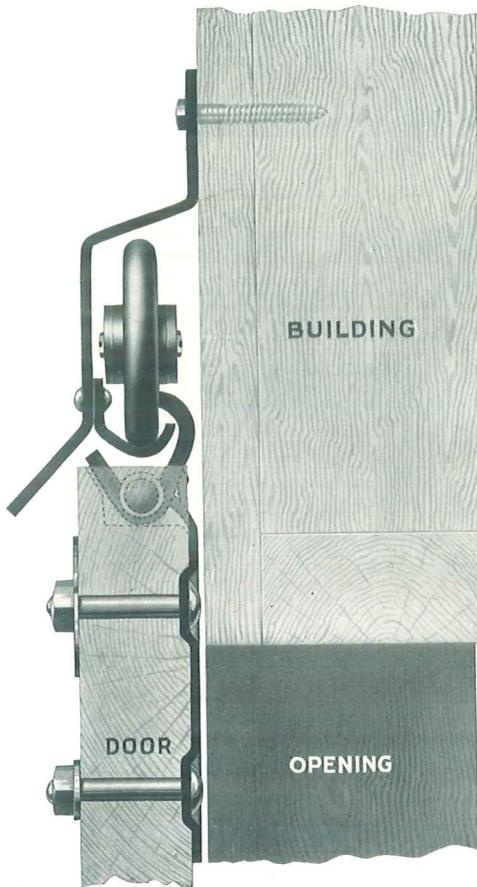
Finishes: Japanned and Hot Galvanized.

Packed one pair in a box with lag screws, bolts, end stops, socket wrench and installation instructions, one dozen pairs in a case.

Weight, per case, 90 pounds.

GLIDE TRACK

Showing Cross Section View with No. 1 Hanger



Actual Size of GLIDE
Hanger Wheel

Top of door and hanger completely protected from the weather. Wide tread and machined wheels eliminate friction and insure ease of operation.

Wheels cannot bind or drag in track.

GLIDE DOOR HANGER

Adjustable

No. 2

Patented



For doors weighing up to 1,000 pounds, and for use with GLIDE and HILO Tracks.

The No. 2 Hanger is similar in design and construction to the No. 1, but has an adjustable feature. Wheels are cast iron, 3-inches in diameter, with steel roller bearings and axles. All other parts are wrought steel.

A vertical adjustment is provided which makes it possible to raise or lower the door, thereby compensating for any irregularities in the floor surface caused by frost upheaval, etc. The adjustment is on the inside of the door protected from the weather. No lateral adjustment is necessary as Hangers are applied to the inside of the door, making it possible for any thickness of door to be used without blocking or bracing.

Finishes: Japanned and Hot Galvanized.

Packed one pair in a box with lag screws, bolts, end stops, socket wrench and instructions, one dozen pairs in a case.

Weight, per case, 87 pounds.

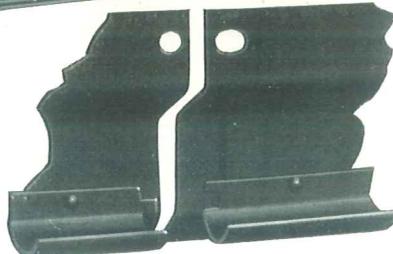
GLIDE TRACK

No. 111

Patented



Patented Telescoping Joint



For doors weighing up to 1,000 pounds, and for use only with No. 1 and No. 2 GLIDE Hangers.

This is the original water-shed Track and Cover in one piece.

The patented telescope joint permits one piece to fit into the next, making a smooth, continuous tread.

Track is applied flat against the building, secured by lag screws every foot, and requires no brackets.

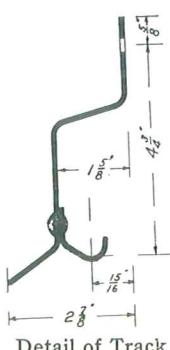
The long storm apron fully protects top of door, making it completely weather-tight and bird-proof. Hangers may be oiled through holes provided in each length of track.

Made in lengths of 4, 6, 8 and 10 feet.

Finishes: Japanned and Hot Galvanized.

Packed for shipment: 4-foot, six pieces in a bundle; all other lengths, four pieces in a bundle.

Weight, per 100 feet, 265 pounds.



Detail of Track

HILO TRACK

No. 666

Patented



Patented Telescoping Joint



For doors weighing up to 1,000 pounds, and for use with No. 1 and No. 2 GLIDE Hangers, and No. 68 HILO Hangers.

HILO is a high quality, low priced track for heavy doors.

It is simple in design and will stand hard service.

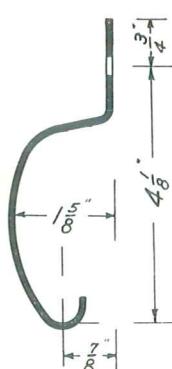
The one-piece construction eliminates the need of brackets.

Track lies flat against the building.

Patented telescope joint on every length.

Tread is smooth and wide.

Hangers cannot bind, drag nor derail.



Detailed Dimensions
of HILO Track

Weather-proof and bird-proof.

Used with sliding, folding or parallel doors.

Hangers may be oiled through holes in each length of track.

Finishes: Japanned and Hot Galvanized.

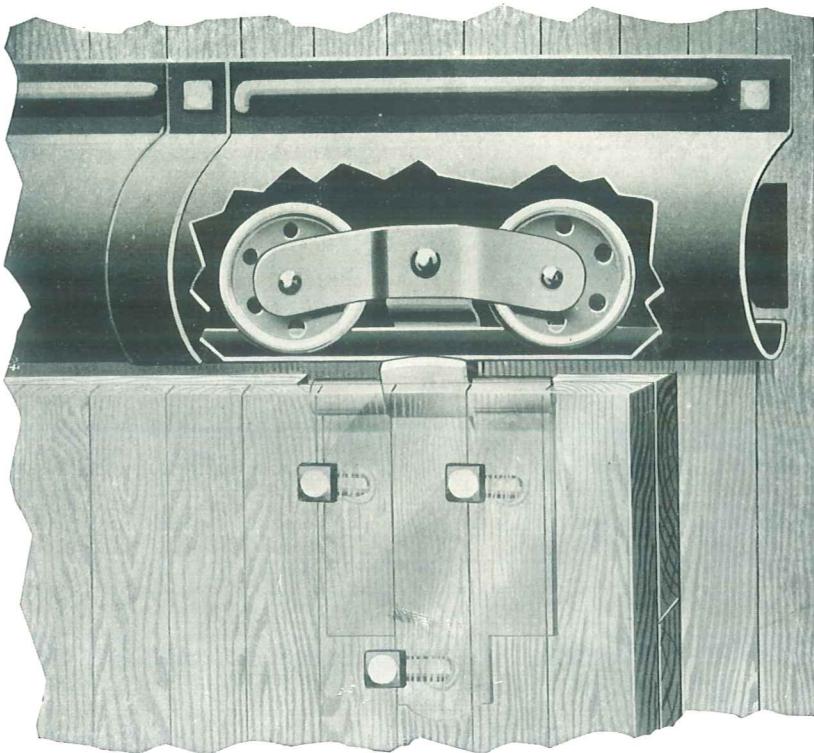
Made in lengths of 4, 6, 7, 8, 9 and 10 feet.

Packed for shipment as follows: 4-foot, six pieces in a bundle; all other lengths, four pieces in a bundle.

Weight, per 100 feet, 150 pounds.

DOOR HANGER No. 12

Patented



For doors weighing up to 500 pounds.

For use only with RUNWEL and SHEDWEL Tracks.

No. 12 Hanger is exceptionally strong, and will carry with ease all average weight doors.

It is applied on the inside of the door and thereby protected from the weather.

Has flexible swing-out joint.

Wheels are cast iron, $2\frac{1}{4}$ -inches in diameter, machined tread, with steel roller bearings and axles. All other parts are wrought steel.

Easily installed, smooth in operation, cannot derail.

Finishes: Japanned and Hot Galvanized.

Packed one pair in a box with lag screws, bolts, socket wrench, end stops and installation instructions, one dozen pairs in a case.

Weight, per case, 53 pounds.

DOOR HANGER

Adjustable

No. 14

Patented



For doors weighing up to 500 pounds.

For use with RUNWEL and SHEDWEL Tracks.

Wheels are cast iron, $2\frac{1}{4}$ -inches in diameter, machined tread, with steel axles and roller bearings. All other parts are wrought steel.

Vertical adjustment feature permits compensation for any floor surface irregularities which might occur. Adjustment is on inside of door, protected from the weather.

No lateral adjustment as hanger is applied to inside of door. Door is always carried the proper distance from the building.

Finishes: Japanned and Hot Galvanized.

Packed one pair in a box with lag screws, bolts, end stops, socket wrench and installation instructions, one dozen pairs in a case.

Weight, per case, 58 pounds.

RUNWEL TRACK

No. 555

Patented



Patented Telescoping Joint



For doors weighing up to 500 pounds.

For use with Nos. 12, 14, 15 and 58 Hangers.

RUNWEL is the all-purpose track, heavy enough for most doors and low in price.

RUNWEL Track lies flat against the building, requiring no brackets.

It has patented telescope joint on every length.

RUNWEL completely houses the hangers, protecting them from the weather. Positively bird-proof.

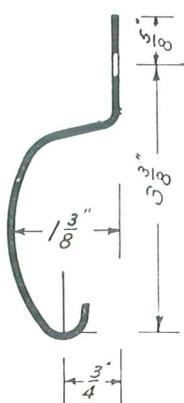
Hangers may be oiled through oil holes in each length of track.

An ideal track for straight sliding, single doors, parallel doors, sliding folding doors, and doors which operate around the corner.

Finishes: Japanned and Hot Galvanized.

Made in lengths of 4, 5, 6, 7, 8, 9 and 10 feet.

Packed for shipment as follows: 4-foot lengths, six pieces in a bundle; all other lengths, four pieces in a bundle.



Detail of Track

Weight, per 100 feet, 134 pounds.

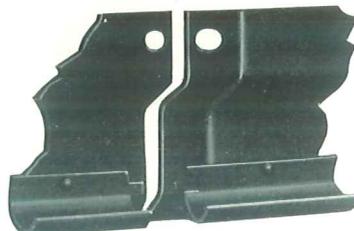
SHEDWEL TRACK

No. 222

Patented



Patented Telescoping Joint



For doors weighing up to 500 pounds.

For use with No. 12 and No. 14 Hangers.

SHEDWEL Track is identical to GLIDE in design and construction but is slightly smaller and made of lighter weight steel.

SHEDWEL gives perfect protection to the hangers and top of the door. Weather-proof. Bird-proof.

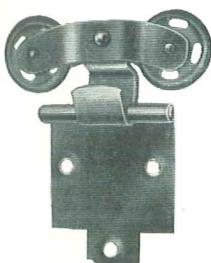
Has a patented telescope joint on every length. Wide, smooth tread. Oil hole in each length of track.

Finishes: Japanned and Hot Galvanized.

Made in lengths of 4, 6, 8 and 10 feet.

Packed for shipment: 4-foot lengths, six pieces in a bundle; all other lengths, four pieces in a bundle.

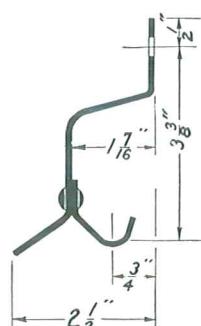
Weight, per 100 feet, 186 pounds.



No. 12 Hanger
Used with
SHEDWEL and
RUNWEL Tracks



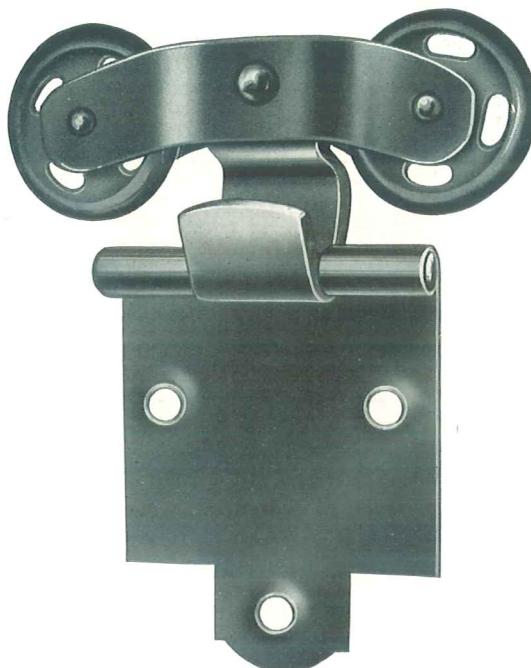
No. 14 Hanger
Used with
SHEDWEL and
RUNWEL Tracks



Detail of
SHEDWEL Track

ROLLAWAY DOOR HANGER No. 30 $\frac{1}{2}$

Patented



For doors weighing up to 250 pounds.

For use only with ROLLAWAY Track.

Designed and built along the same lines as the No. 1 GLIDE but for lighter duty.

Applied to inside of door. No blocking or cutting required. Wheels are cast iron, 1 $\frac{3}{4}$ -inches in diameter, with steel axles and roller bearings. All other parts are wrought steel.

Perfectly rigid and vibrationless in operation.

Has flexible swing-out joint to prevent damage to door should anything bump against it.

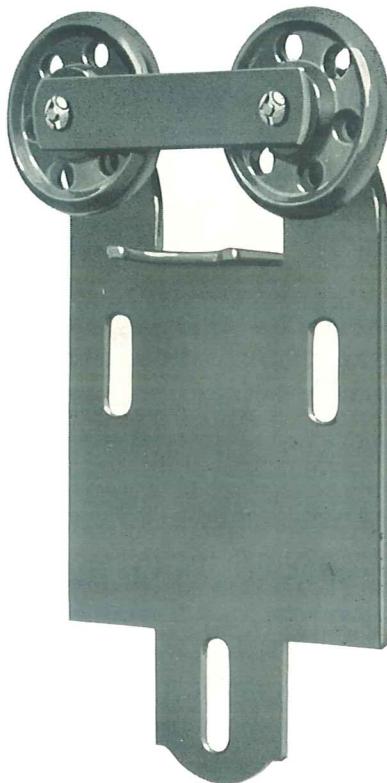
Cannot derail. Recommended for use on garage doors, inside doors, and parallel door installations.

Finishes: Japanned and Hot Galvanized.

Packed one pair in a box with lag screws, bolts, end stops, socket wrench and installation instructions, one dozen pairs in a case.

Weight, per case, 37 pounds.

ROLLAWAY DOOR HANGER No. 45



For doors weighing up to 100 pounds.

For use only with ROLLAWAY Track.

A low-priced Hanger for light parallel operating doors. Wheels are cast iron, $1\frac{3}{4}$ -inches in diameter. All other parts are wrought steel.

Notched bolt holes provide for vertical adjustment.

Guide for setting hanger also serves to prevent derailment.

Finish: Japanned.

Packed one pair in a box with lag screws, bolts, end stops and installation instructions, one dozen pairs in a case.

Weight, per case, 30 pounds.

ROLLAWAY TRACK

No. 444

Patented



Patented Telescoping Joint

For doors weighing up to 250 pounds.

For use with Nos. 5, 30½, 45 and 48 Hangers.

A popular and most satisfactory low-priced track for average weight garage doors and other installations where an enclosed track is desired. It has a patented telescope joint on every length. Track lies flat against the building, requiring no brackets.

Weather-proof and bird-proof.

Hangers are completely protected and cannot derail.

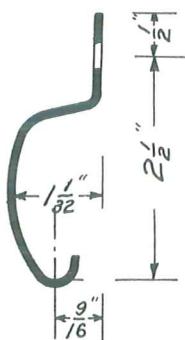
Oil hole for hangers in each length of track.

Made in lengths of 4, 5, 6, 7, 8, 9 and 10 feet.

Finishes: Japanned and Hot Galvanized.

Packed for shipment as follows: 4-foot lengths, six pieces in a bundle; all other lengths, four pieces in a bundle.

Weight, per 100 feet, 90 pounds.

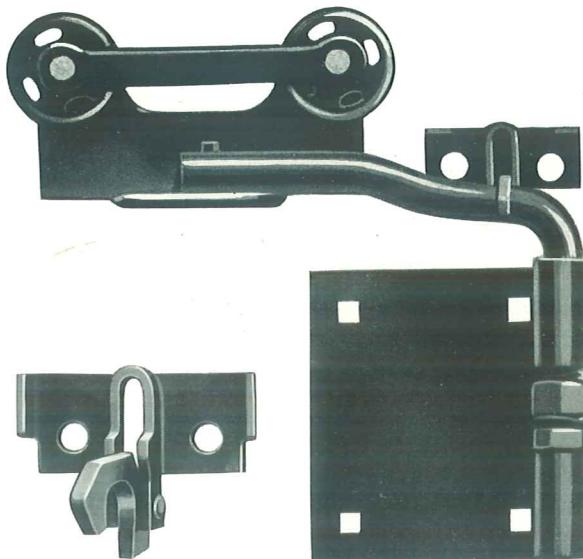


Detailed Dimensions
of ROLLAWAY Track

ROLLAWAY SWIVEL HANGER

No. 48

Patented



No. 48 ROLLAWAY Swivel Hanger

For doors weighing up to 250 pounds. For use with ROLLAWAY Track on sliding-folding doors. Packed in No. 40 Garage Sets. Adjustable and reversible for right and left hand doors. Cannot derail. Doors fold entirely clear of the opening. Automatic catch engages the angle bolt holding the door snugly in place when closed. Wheels are cast iron, $1\frac{3}{4}$ -inches in diameter, with steel roller bearings and axles.

Finish: Japanned.

Packed one in a box with catch, lag screws, bolts, socket wrench and installation instructions. Weight, each, $3\frac{1}{2}$ pounds.

No. 58 RUNWEL Swivel Hanger

For doors weighing up to 500 pounds and for use with RUNWEL Track on sliding-folding doors. Packed in No. 50 and No. 55 Garage Sets. Wheels are $2\frac{1}{4}$ -inches in diameter. Construction, packing and finish same as No. 48 above, excepting it is larger and heavier. Will operate all average weight doors smoothly and easily. Cannot derail. Weight, each, $5\frac{1}{2}$ pounds.

No. 68 HILO Swivel Hanger

For doors weighing up to 750 pounds. For use with HILO Track on sliding-folding doors. Packed in No. 60 Garage Sets. Wheels are 3-inches in diameter. Construction, packing and finish same as No. 48 above, excepting it is much heavier and is recommended for large and heavy doors. Weight, each, $6\frac{1}{2}$ pounds.

ROLLAWAY SWIVEL HANGER No. 5

For doors weighing up to 250 pounds.

For use only with ROLLAWAY Track.

Packed in No. 210 AROUND-THE-CORNER Garage Sets.

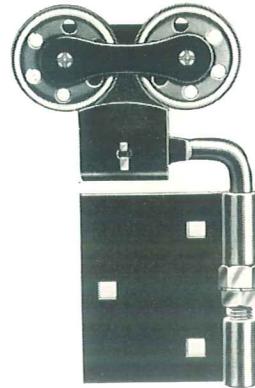
Adjustable and reversible for right and left-hand doors. Designed for single thickness doors and AROUND-THE-CORNER operation. Simple, inexpensive and of sturdy construction.

Wheels are cast iron, $1\frac{3}{4}$ -inches in diameter, with steel roller bearings and axles. Vertical adjustment on angle bolt. Will operate satisfactorily on both 16-inch and 36-inch radius ROLLAWAY Curves.

Finish: Japanned.

Packed one pair in a box with lag screws, bolts, end stops, socket wrench and installation instructions.

Weight, per pair, $3\frac{3}{4}$ pounds.



RUNWEL SWIVEL HANGER No. 15



For doors weighing up to 500 pounds.

For use only with RUNWEL Track.

Packed in No. 215 and No. 220 AROUND-THE-CORNER Garage Sets.

Adjustable and reversible for right and left-hand doors. Similar in design and construction to the No. 5 Hanger but of much heavier material and with $2\frac{1}{4}$ -inch wheels. For AROUND-THE-CORNER installations with average weight doors.

Can be used with both the 16-inch and 36-inch radius RUNWEL Curves. Cannot derail.

Finish: Japanned.

Packed one pair in a box with lag screws, bolts, end stops, socket wrench and installation instructions.

Weight, per pair, 5 pounds.

CURVED TRACK

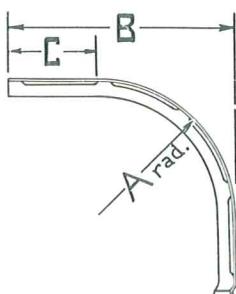


Curved track is supplied in two sizes each for ROLLAWAY and RUNWEL Track. Formed to 90 degrees for square corners. No. 412 and No. 516 have steel back plates to prevent hanger from rubbing on curve support. No back plate supplied on No. 436 and No. 536 large Curves, as binding is impossible. All steel with telescope joints to match track of same size.

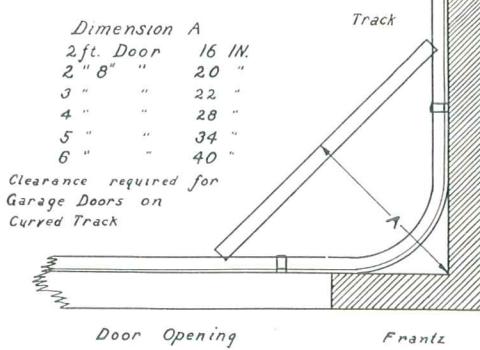
Finish: Japanned.

No.	Style	Shape	Overall Length Inches	Weight Each
412	Rollaway	90°	36 $\frac{3}{8}$	5 pounds
436	Rollaway	90°	72	6 pounds
516	Runwel	90°	48 $\frac{1}{4}$	9 pounds
536	Runwel	90°	72	8 pounds

Below are details and dimensions of the Curved Tracks.



RUNWEL TWO SIZES	ROLLAWAY TWO SIZES
A 16" & 36"	A 12" & 36"
B 28" & 44"	B 20" & 44"
C 12" & 12"	C 8" & 12"



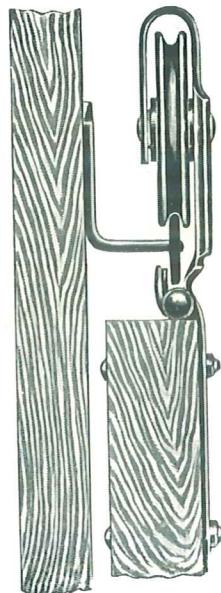
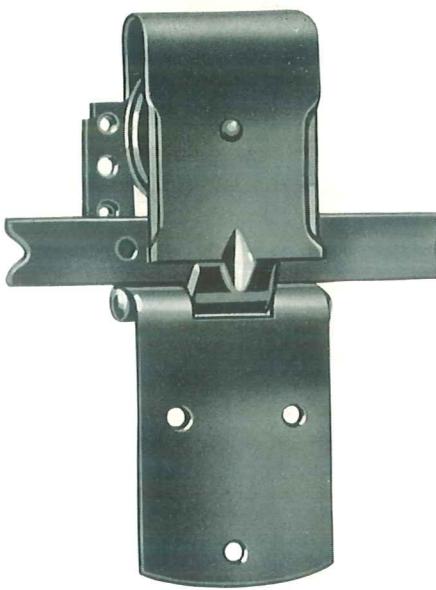
Door Opening

Frontz

FLAT RAIL HANGER

Flexible

No. 44



Cut above shows stay-on feature. Note the door is held close to the rail.

For use with No. 333 STANDARD Flat Rail, or any other Flat Rail $\frac{3}{16}'' \times 1\frac{1}{4}''$ in size.

Door is carried closer to track than with any other type of open hanger, reducing vibration and preventing friction and wear.

Wheels are cast iron, $3\frac{1}{2}$ -inches in diameter, with steel roller bearings and axles.

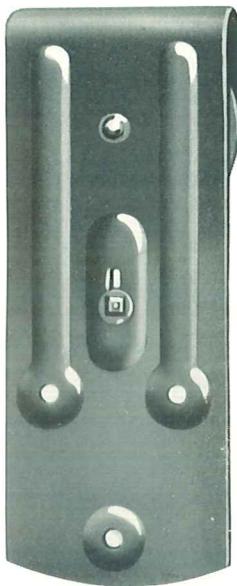
Hinged joint allows door to swing out at bottom without danger to door or hardware.

Finish: Japanned.

Packed one pair in a box with bolts, one dozen pairs in a case.

Weight, per pair, $6\frac{1}{4}$ pounds.

FLAT RAIL HANGER
No. 33



STANDARD RAIL
No. 333



No. 333 STANDARD Flat Rail for use with No. 33 and No. 44 Hangers. Made of $\frac{3}{16}$ " x $1\frac{1}{4}$ " steel and will carry all standard open track hangers. Extra long bracket for added bearing surface against building giving greater strength. Brackets have two countersunk holes for wood screws, center hole straight for lag screw or bolt. Brackets are double riveted, one foot apart. Made in 4, 6, 8 and 10-foot lengths.

Finish: Japanned.

Eight pieces of each length in a bundle.

Weight, per 100 feet, 90 pounds.

No. 33 Hanger is of the rigid type for use with No. 333 STANDARD Rail, and all other types of flat rail. A highly satisfactory, low-priced hanger. Wheels are cast iron, $3\frac{1}{2}$ -inches in diameter, with steel roller bearings and axles. Case is embossed for added strength. Adjustment bolt prevents hanger from derailing.

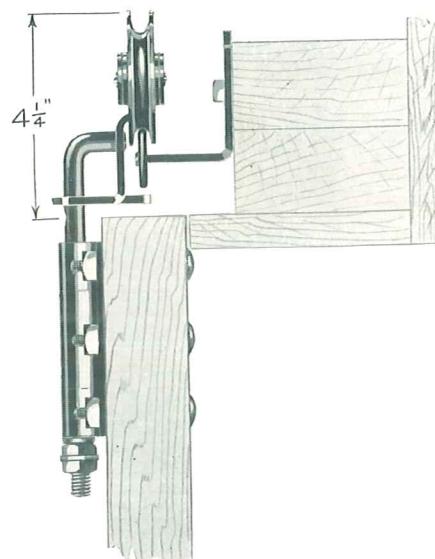
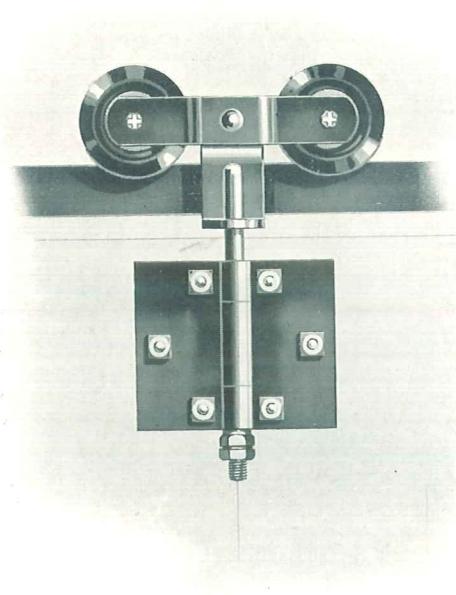
Finish: Japanned.

Packed one pair in a box with bolts, one dozen pairs in a case.

Weight, per pair, 5 pounds.

FLAT RAIL SWIVEL HANGER

No. 53



Cut above shows end view of
No. 53 and No. 53½ applica-
tions.

Made of heavy gauge steel, except the wheels which are cast iron. Wheels are sheave type with deep grooves. Steel roller bearings and axles. Full hinge type door plates. The hanger swivels freely on a brass thrust bearing which is both wear and friction resistant. Liberal vertical adjustment which locks securely. Hanger constructed so doors hang directly under the track.

Furnished with Nos. 214 and 215 Garage Sets.

Finish: Japanned.

Packed one only in a carton with bolts.

Weight, each, 4 pounds.

No. 53½ Hanger

Similar in design to the No. 53 Hanger, except that the door plate is a half hinge instead of a full hinge. For use on the outer corner of AROUND-THE-CORNER installations.

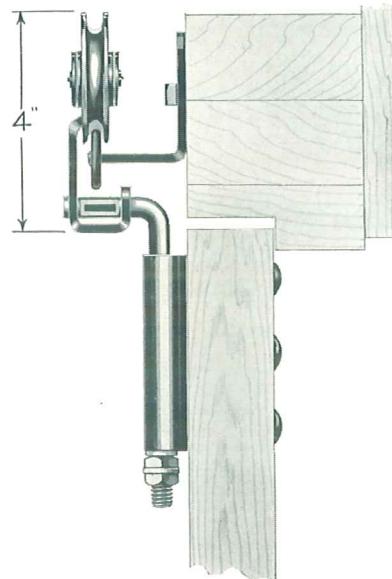
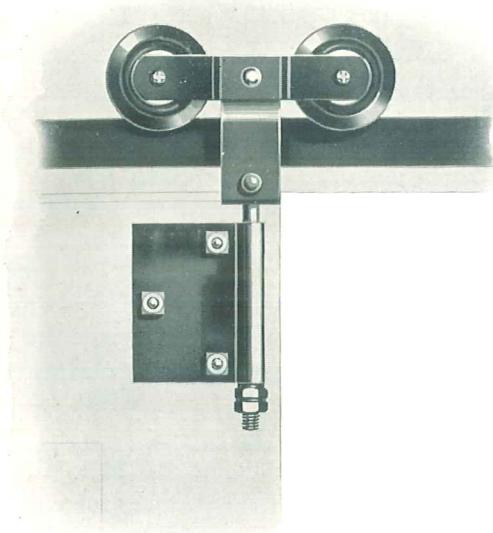
Finish: Japanned.

Packed one in a box with bolts.

Weight, each, 3 1/2 pounds.

FLAT RAIL SWIVEL HANGER

No. 54



Cut above shows end view of
No. 54 Hanger application.

The No. 54 Swivel Hanger is designed for use with STANDARD Flat Rail.

Hanger is made of heavy gauge steel, except the wheels, which are cast iron. Wheels have steel roller bearings and axles. The brass swivel bearing eliminates wear and friction, assuring smooth, easy operation of the doors at all times. Liberal vertical adjustment provided to compensate for irregularities of floor surface. Adjustment easily made and can be positively locked in place. Special construction allows the doors to fit under the header against the stop, making a weather-tight installation.

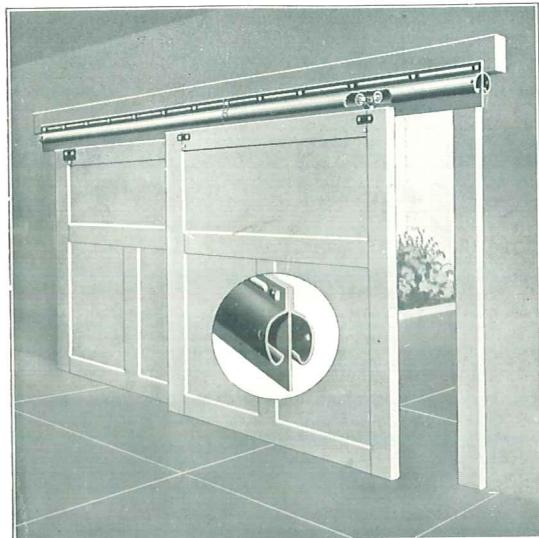
Furnished with No. 70 Garage Set.

Finish: Japanned.

Packed one in a box with bolts.

Weight, each, $3\frac{1}{2}$ pounds.

METHODS OF HANGING PARALLEL DOORS WITHOUT TRACK BRACKETS



At left is shown a very desirable and inexpensive installation for hanging doors parallel, using HILO, RUNWEL or ROLLAWAY Track, attached to a 2 x 6 header.

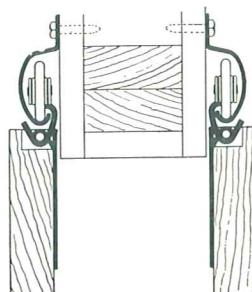
Parting Strip

Parting strip can be used between tracks for a weather-tight installation; however, it is not imperative. Can be supplied for all Tracks. Made in 6, 8 and 10-foot lengths.

Finish: Japanned.

Cut at right illustrates another type of parallel installation, with one track inside of building, and the other track outside of building.

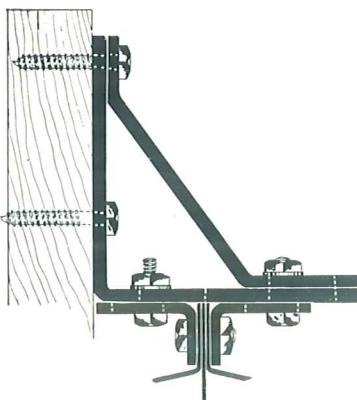
To be used where there is a center post in the opening.



Cross section view at left further illustrates the simplest method of hanging doors parallel.

Note the Parting Strip which makes the installation weather-tight.

TRACK BRACKETS FOR HANGING PARALLEL DOORS



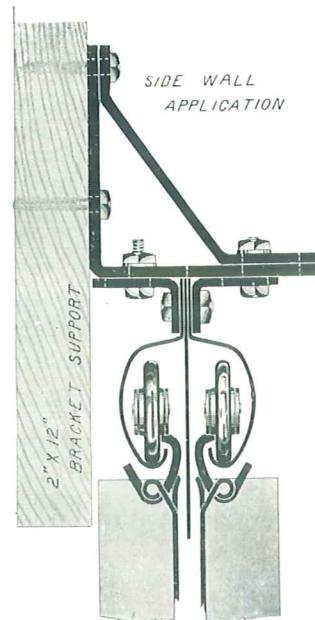
No. 4 Track Bracket

For use with GLIDE, SHEDWEL, HILO, RUNWEL or ROLLAWAY Tracks.

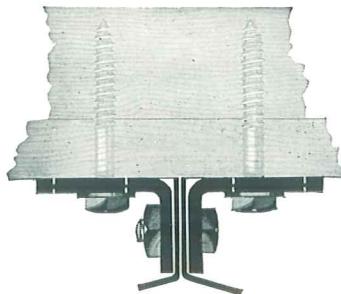
Adjustable for doors of various thicknesses. May be installed inside or outside the building.

Packed one-half dozen in a box.

Weight, per dozen, 30 pounds.



Cut above shows end view of parallel installation, using No. 4 Track Brackets.



No. 6 Track Bracket

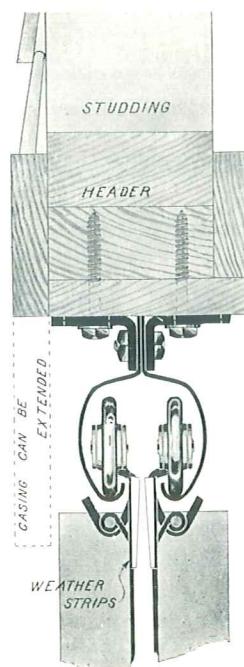
For use with GLIDE, SHEDWEL, HILO, RUNWEL or ROLLAWAY Tracks.

Brackets are attached to head jamb. Doors slide within the opening, between side jambs.

Packed one dozen in a box.

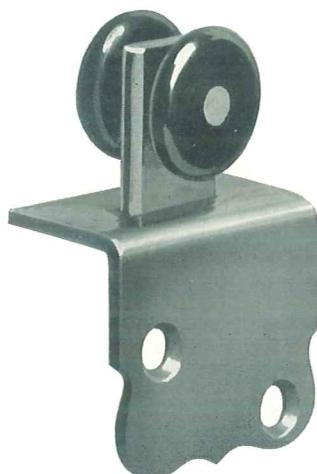
Weight, per dozen, 6 pounds.

Cut at right shows application of No. 6 Bracket.



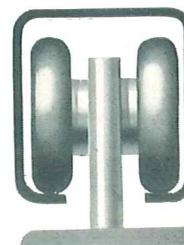
MIDGET HANGER AND TRACK No. 9

For doors weighing up to 75 pounds. Quiet, efficient, sturdy and easily installed.



Actual Size

MIDGET Hangers and Track are designed for use on showcases, closets, cupboards, screened porches, cabinets and all other small sliding doors.



Actual Size

Wheels are Bakelite with solid brass bearings to eliminate noise and friction. Moisture proof.

Hangers are supplied in Dull Brass finish only, and are packed one dozen pairs in a box with screws.

Weight, per dozen pairs, 3 pounds.

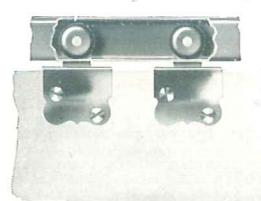
MIDGET Track is supplied only in 4-foot lengths. Round head screws for applying track not furnished.

Finish: Plain Steel.

Weight, per 100 feet, 37 pounds.



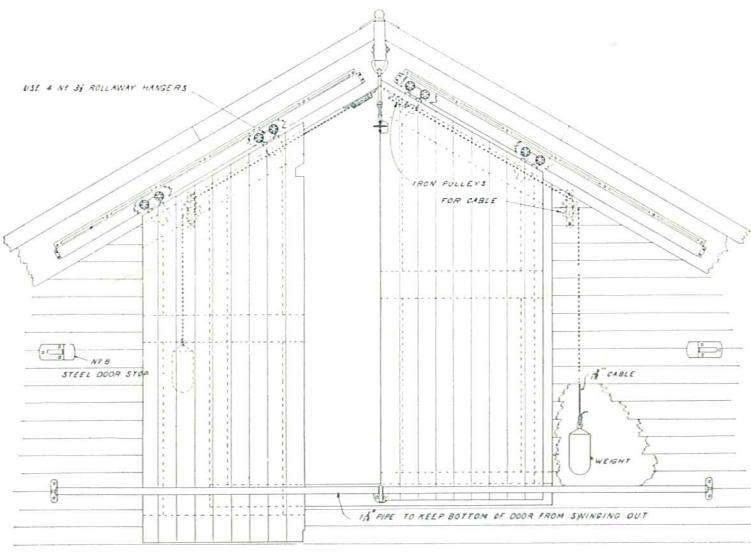
Cut above shows application of Hanger.



Cut above shows door hung with MIDGET Hangers and Track.

GABLE DOOR SET

No. 87



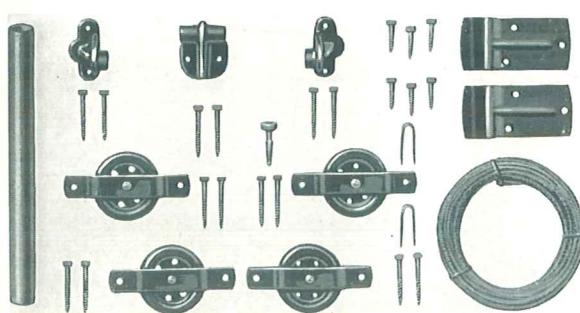
May be used with any style of hangers and track.

Furnished for 10-foot and 12-foot openings.

Track is applied parallel to slope of roof. Hangers applied to doors in usual manner.

Doors counterbalanced by weights which are hung inside of building and may be made of any convenient material.

The following parts make up the set for a 10-foot opening:



4 Pulleys

2 Door Stops

50 Feet Steel Cable

20 Feet Tubing

Necessary brackets, lag screws, staples, socket wrench and directions for installation.

All parts furnished in Japan finish except cable.

24 Feet of Tubing furnished for 12-foot opening.

Packed one set in a carton, pipe bundled separately.

Weight, per set, $13\frac{1}{2}$ pounds.

Pipe, per foot, 1 pound.

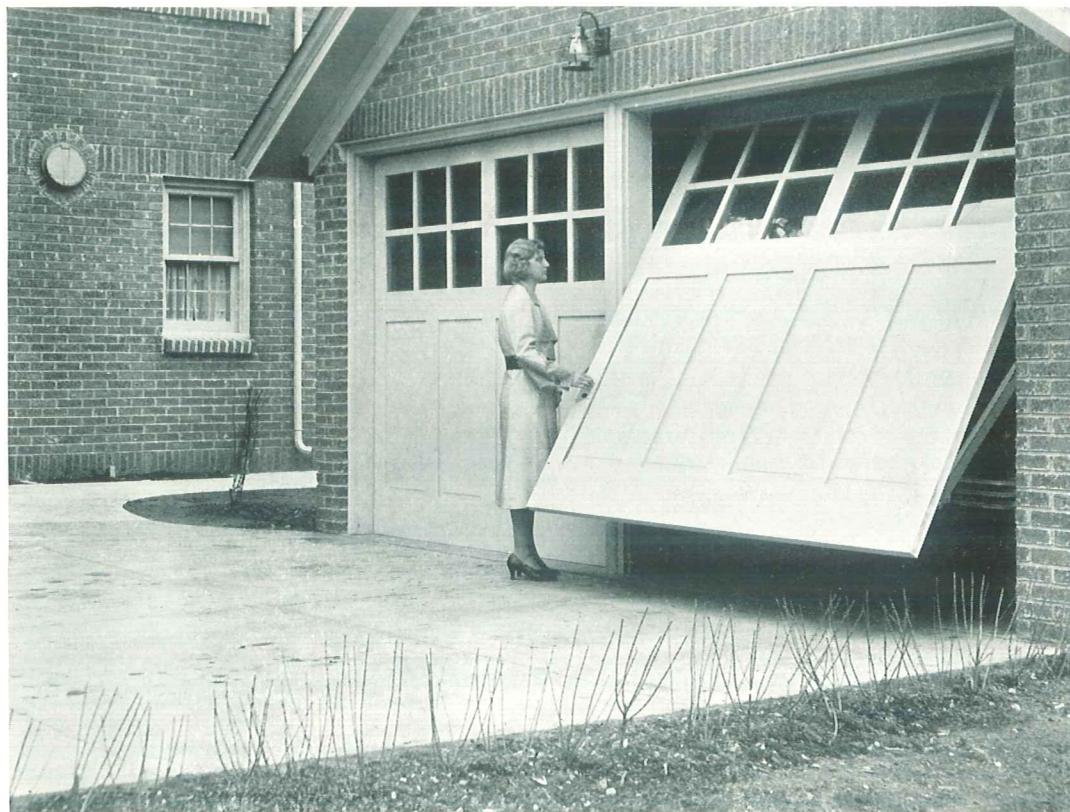


"Over-the-Top" Door Equipment

U. S. Patent Nos. 1,926,671; 1,860,387; 1,879,798;
1,940,408; others pending.

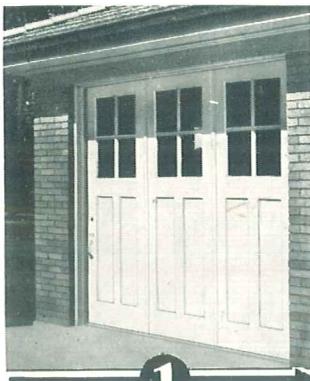
OVER-THE-TOP Door Equipment represents an unusual development in garage door operation. It takes "overhead" doors out of the luxury class—it broadens the market for this type of door operation—with its simplicity and low cost.

OVER-THE-TOP Door Equipment gives the dealer an opportunity to enter a new field—to go after new, profitable business—because of its easy installation and adaptability to used doors as well as new.



Over-the-TopTM
Door Equipment

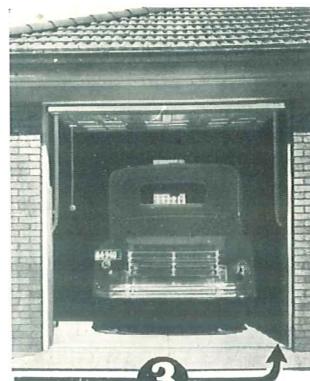
3 SECONDS AND IT'S OPEN



1



2



3

OVER-THE-TOP Door Equipment lifts the garage door—up, overhead—in a matter of seconds. It is the full realization of every car owner's dream. Its new principle brings the utmost in convenience—its simplicity accomplishes a minimum of cost. The fact that it is applicable to used doors as well as new brings it within the reach of a tremendous market. The following are a few of the many exclusive selling features of this remarkable equipment:

1. Operates easily and silently.
2. Weather tight—no ice or snow worries.
3. Quickly installed—no costly fitting.
4. Applicable to used or new doors.
5. Door prevented from slamming by patented friction brake.
6. Easily operated by women and children.
7. Saves garage floor space.
8. Door automatically locks on both jambs.
9. Operates from interior as well as exterior.
10. Has oversize oil tempered and heat treated power springs.
11. Door cannot close of its own accord.
12. Wind cannot blow door open or shut.

13. Adjustable for various weights of doors.
14. No pulleys, chains, cables or weights.
15. Chrome plated, automobile type lock furnished.
16. Door perfectly balanced in any position.
17. Rugged construction to assure long, dependable service.
18. Only $3\frac{1}{4}$ -inches head-room required for an 8' x 8' opening.
19. Door cannot fall.
20. Prices within the reach of every purse.

From the inside, a slight push with the foot is all that is necessary to raise the door to the full open position. Perfect balance makes opening virtually automatic—a feature women and children appreciate.

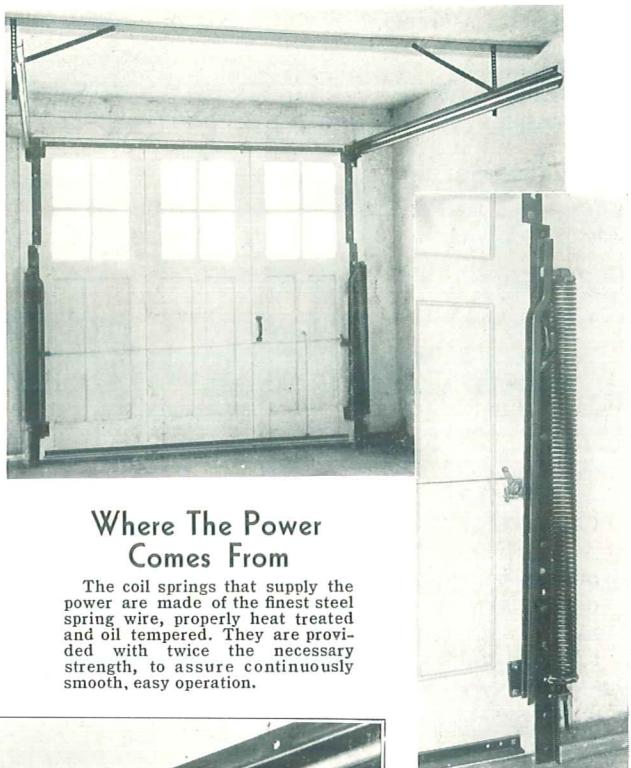


Over-the-Top[®] Door Equipment

EASILY AND QUICKLY INSTALLED ON USED DOORS AS WELL AS NEW

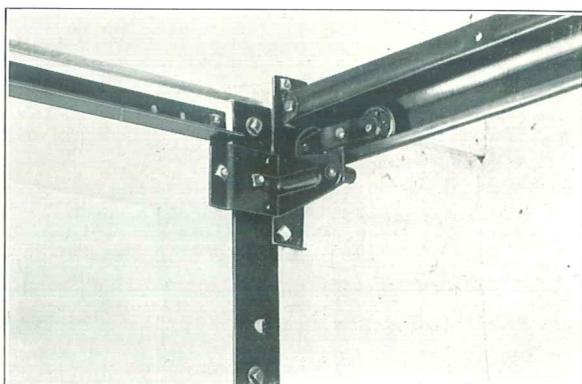
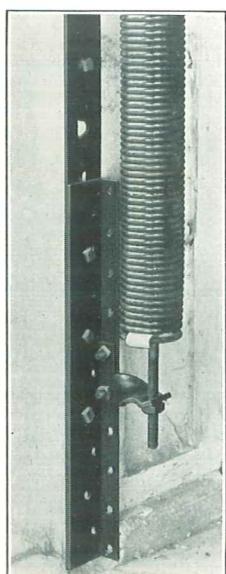
By following the fully detailed and illustrated instructions furnished, any carpenter can install OVER-THE-TOP Door Equipment. No special or complicated construction is required.

With the door fitted properly into the opening, the metal weatherstrip and other equipment is bolted in place quickly. After a few minor adjustments, the job is done. In many instances, one man has been able to complete an installation of OVER-THE-TOP Door Equipment in from $2\frac{1}{2}$ to 3 hours.



Where The Power Comes From

The coil springs that supply the power are made of the finest steel spring wire, properly heat treated and oil tempered. They are provided with twice the necessary strength, to assure continuously smooth, easy operation.



Adjustable Power

At the left is a close-up of the spring bracket. Note how this feature makes it possible to obtain just the right amount of power for perfect operation of every door.

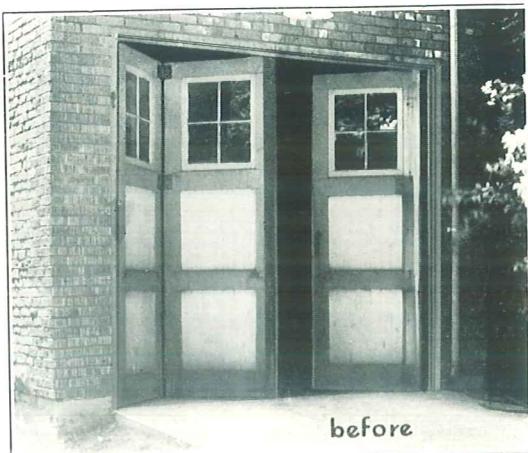


All-Steel Weatherstrip

An OVER-THE-TOP Door Equipment installation is made perfectly and permanently weather-tight by steel weatherstrip, furnished. This feature also simplifies erection and eliminates guess-work by locating bolt and lag screws for the hangers, spring brackets, etc.

'Over-the-Top' Door Equipment

USED GARAGE DOORS MODERNIZED TO OPERATE OVERHEAD

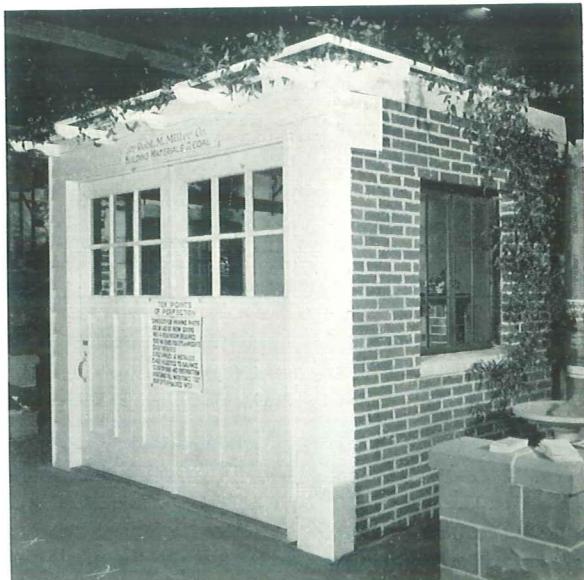


In addition to the broad market for OVER-THE-TOP Door Equipment in new building, its low price and its adaptability to used doors opens another bigger opportunity for profit—the replacement market. A check-up of the garages in any community will reveal an amazing

number of cases where the doors are difficult to operate. Every garage of this type represents a prospective sale for OVER-THE-TOP Door Equipment. The photos above clearly show the results that can be accomplished.

Store Demonstrator Makes Quick Sales

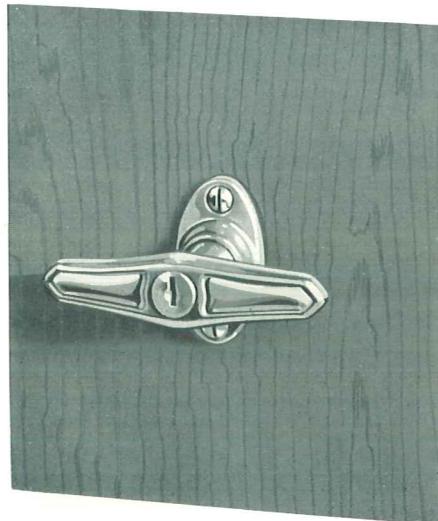
Because almost every car owner has to contend with troublesome and inefficient garage doors, they become enthused about OVER-THE-TOP Door Equipment at first sight. Many dealers, realizing that this "desire to own" makes sales come easy, have installed a demonstrator in or nearby their places of business. At the right is pictured one such installation. These dealers have found that the demonstrator has paid for itself many times over.



'Over-the-Top' Door Equipment

BEAUTIFUL AUTOMOBILE TYPE HANDLE-LOCK

Standard Equipment

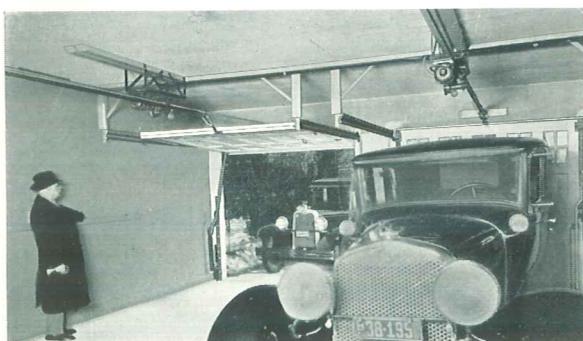


Each installation of OVER-THE-TOP Door Equipment is made more convenient and attractive by a modern, automobile type handle-lock. Catches in both side jambs (inside) automatically engage as the door closes and hold it securely.

When unlocked, a slight turn of the handle releases both catches. Locked, by a half-turn of the key, it is impossible to force entrance into the garage. Heavy chrome plating on the handle prevents corrosion or rust.

ELECTRICAL EQUIPMENT DEVELOPED FOR FULLY AUTOMATIC OPERATION

Several manufacturers (names on request) have developed highly efficient electrical devices for use with OVER-THE-TOP Door Equipment. For home owners who desire fully automatic operation. Below, typical installation illustrated.



Above is another type of mechanical "open and closer" available for application to any set of OVER-THE-TOP Door Equipment. Push buttons may be installed in any number of convenient locations.



'Over-the-Top' Door Equipment

AUTOMATIC OPENER

No. 90 -- No. 91

Electrically Operated from 110 Volt A. C. Current



The turn of a key-switch, conveniently reached by the driver of a car, provides instant and automatic opening of the doors plus the added convenience and safety of lighting the garage. Lights are automatically turned off when garage door is closed.

Push buttons or key-switches may be installed in any number of desirable locations—in the house, inside or outside the garage or alongside the driveway.

Opener No. 90 for OVER-THE-TOP Sets Nos. 78, 709, 710, 781. Opener No. 91 for No. 718 Set.

Each opener packed in a carton with screws, etc., and simple instructions for installing. One key-switch is supplied; others can be furnished upon request when more than one control station is desired.

Weight, per carton, 20 pounds.

Opens from
the Interior of the
Garage



. from
the Residence



or from Driveway
Key-Switch



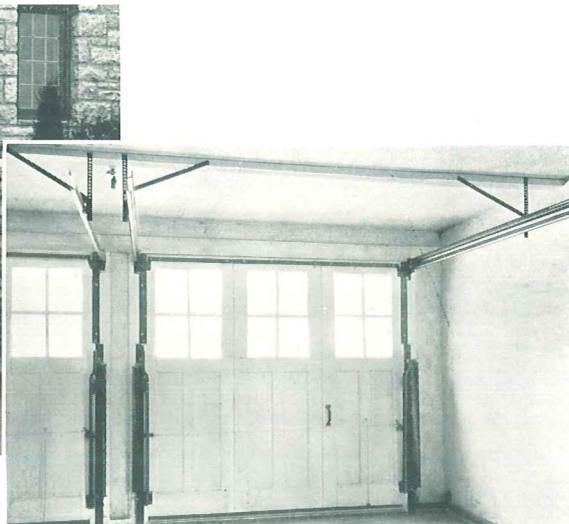
**Over-the-Top
Door Equipment**

"HOW TO ORDER"

Set No.	Door Width	Door Height	Weight of Doors Without Angles, Pounds	Type of Angles	Weight per Set, Pounds
75	7'0" to 8'0"	7'0" to 8'0"	100 to 200	Common	138
78	7'0" to 8'0"	7'0" to 8'0"	150 to 250	Common	143
709	8'0" to 9'0"	7'0" to 8'0"	150 to 250	Common	150
710	9'0" to 10'0"	7'0" to 8'0"	150 to 250	Common	160
781	7'0" to 8'0"	7'0" to 8'0"	150 to 300	Common	153
718	7'0" to 8'0"	7'0" to 7'11"	200 to 500	Common	235
718	7'0" to 8'0"	8'0" to 8'11"	220 to 450	Common	235
718	7'0" to 8'0"	9'0" to 10'0"	175 to 400	Common	235
718	8'0" to 8'11"	7'0" to 7'11"	235 to 500	Common	250
718	8'0" to 8'11"	8'0" to 8'11"	220 to 450	Common	250
718	8'0" to 8'11"	9'0" to 10'0"	175 to 400	Common	250
718	9'0" to 9'11"	7'0" to 7'11"	235 to 500	Common	255
718	9'0" to 9'11"	8'0" to 8'11"	205 to 450	Common	255
718	9'0" to 9'11"	9'0" to 10'0"	175 to 400	Common	255
718	10'0" to 10'11"	7'0" to 7'11"	220 to 485	Solid Truss	260
718	10'0" to 10'11"	8'0" to 8'11"	190 to 435	Solid Truss	260
718	10'0" to 10'11"	9'0" to 10'0"	160 to 385	Solid Truss	260
718	11'0" to 11'11"	7'0" to 7'11"	215 to 480	Solid Truss	275
718	11'0" to 11'11"	8'0" to 9'0"	185 to 430	Solid Truss	275
718	12'0" to 18'0"	7'0" to 7'11"	185 to 450	Adj. Truss	295
718	12'0" to 18'0"	8'0" to 9'0"	155 to 390	Adj. Truss	295
912	9'0" to 9'11"	9'0" to 9'11"	380 to 750	Common	340
912	9'0" to 9'11"	10'0" to 10'11"	340 to 690	Common	340
912	9'0" to 9'11"	11'0" to 12'0"	300 to 630	Common	340
912	10'0" to 10'11"	9'0" to 9'11"	365 to 735	Solid Truss	360
912	10'0" to 10'11"	10'0" to 10'11"	325 to 675	Solid Truss	360
912	10'0" to 10'11"	11'0" to 12'0"	285 to 615	Solid Truss	360
912	11'0" to 11'11"	9'0" to 9'11"	360 to 730	Solid Truss	370
912	11'0" to 11'11"	10'0" to 10'11"	320 to 670	Solid Truss	370
912	11'0" to 11'11"	11'0" to 12'0"	280 to 610	Solid Truss	370
912	12'0" to 18'0"	9'0" to 9'11"	330 to 700	Adj. Truss	420
912	12'0" to 18'0"	10'0" to 10'11"	290 to 640	Adj. Truss	420
912	12'0" to 18'0"	11'0" to 12'0"	250 to 580	Adj. Truss	420

Over-the-TopTM Door Equipment

Sets No. 78, 709, 710, 781



No. 78 OVER-THE-TOP Door Equipment built for the average garage door 7 feet to 8 feet wide by 7 feet to 8 feet high, weighing not less than 150 pounds nor more than 250 pounds.

No. 709 SET—For light weight doors 8 feet to 9 feet wide and 7 feet to 8 feet high, weighing 150 to 250 pounds.

No. 710 SET—For light weight doors 9 feet to 10 feet wide and 7 feet to 8 feet high, weighing 150 to 250 pounds.

No. 781 SET—For doors 7 feet to 8 feet wide and 7 feet to 8 feet high, weighing 150 to 300 pounds.

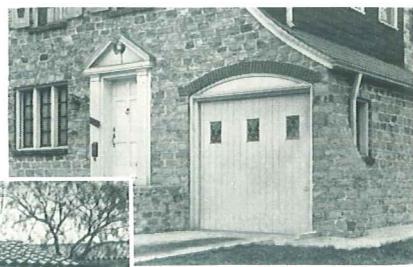


Combining Three 2' 8" Doors in Each Opening

Application to
One-Piece Hand
Made Doors



3 One-Piece Doors of
Architectural
Design



See page 35—"How to Order"

"Over-the-Top" Door Equipment

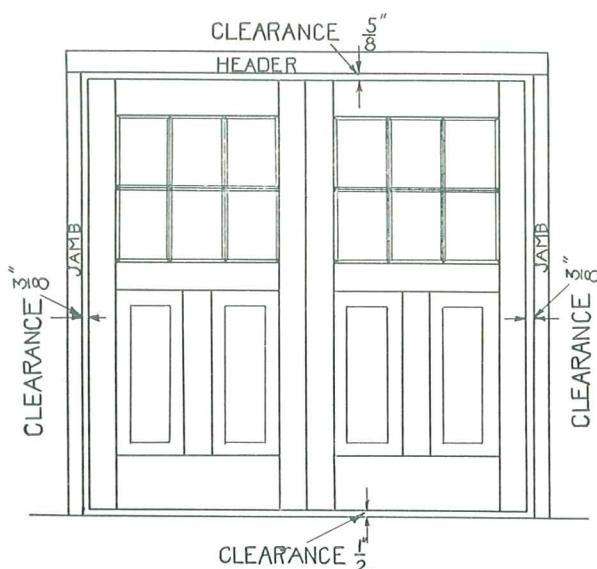
CLEARANCE SPECIFICATIONS No. 78

$3\frac{1}{2}$ " MINIMUM FROM CASING
TO INSIDE WALL

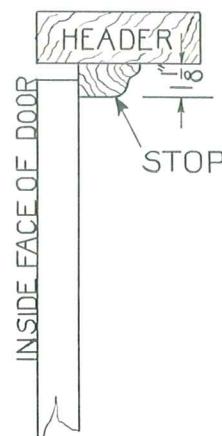


SIDE JAMB DETAIL

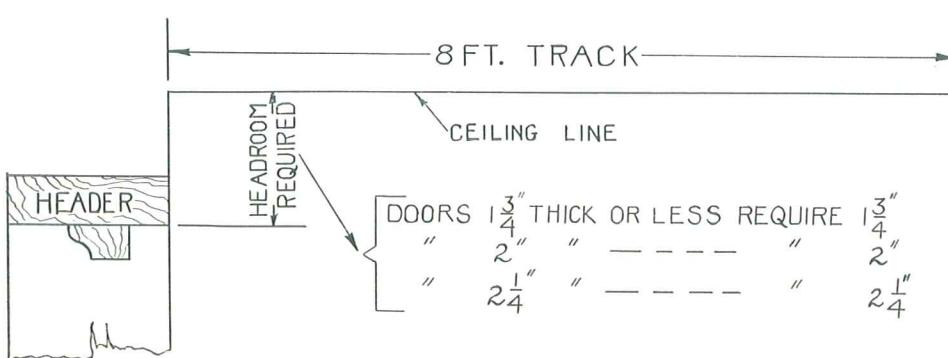
MINIMUM 7"

CENTER POST DETAIL FOR
TWO OR MORE DOORS

DOOR CLEARANCE DETAIL



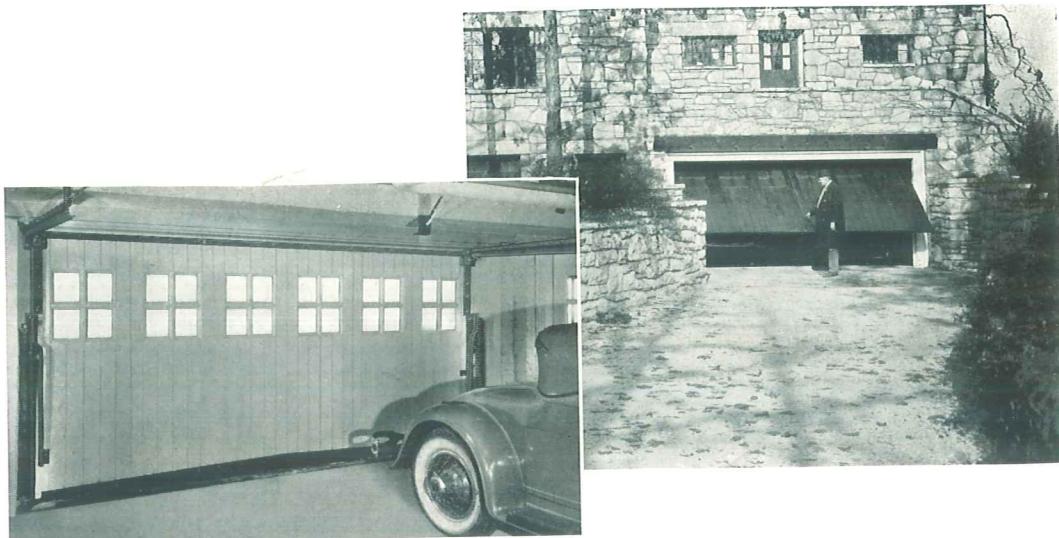
STOP DETAIL



HEADROOM DETAIL

Over-the-Top^{TRADE MARK} Door Equipment

SET No. 718 For Larger and Heavier Doors



Many 2-car garages are built with double width openings (without center post). This type of garage offers no problem for OVER-THE-TOP Door Equipment. However, when ordering equipment for openings larger than 8'x8', it is very important that the actual WIDTH,

HEIGHT, THICKNESS and WEIGHT of the door to be used are specified. Only when this information is supplied is it possible to furnish the proper power springs, angle-trusses, etc., necessary to assure smooth, easy operation.



Architecturally
Designed
One-Piece
Door

*See page 35—
"How to Order"*

Forming Five
New Doors Into
a Single One



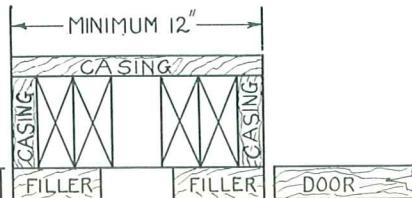
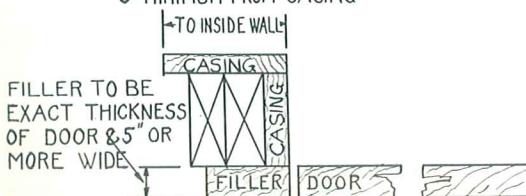
Applied to
Six Standard
Used Doors



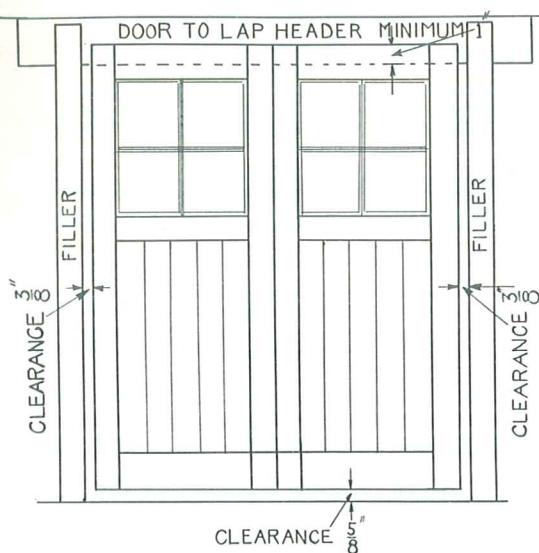
"Over-the-Top" Door Equipment

CLEARANCE SPECIFICATIONS No. 718

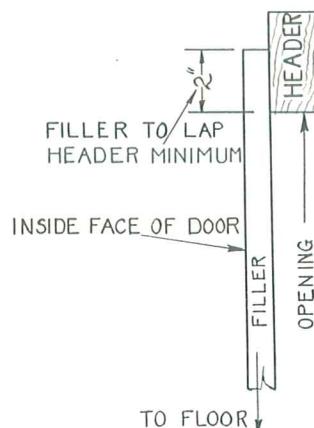
6" MINIMUM FROM CASING



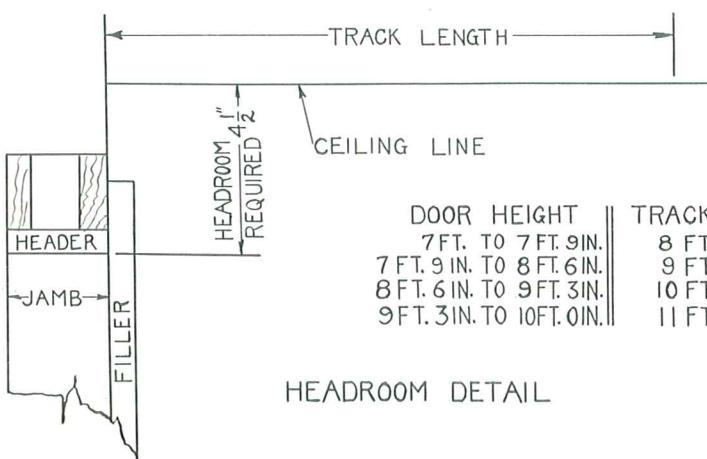
SIDE JAMB DETAIL

CENTER POST DETAIL FOR
TWO OR MORE DOORS

DOOR CLEARANCE DETAIL



FILLER DETAIL



HEADROOM DETAIL

DOOR HEIGHT	TRACK LENGTH
7 FT. TO 7 FT. 9 IN.	8 FT.
7 FT. 9 IN. TO 8 FT. 6 IN.	9 FT.
8 FT. 6 IN. TO 9 FT. 3 IN.	10 FT.
9 FT. 3 IN. TO 10 FT. 0 IN.	11 FT.

'Over-the-Top'
TRADE MARK
Door Equipment
SET No. 912 -- EXTRA HEAVY



The doors of public garages, warehouses, filling stations, freight depots and the like, being unusually large and heavy, cannot be equipped with ordinary devices. No. 912 OVER-THE-TOP Door Equipment is built not only to provide smooth, easy operation, but also to withstand the wear and tear to which doors on this type of building are subject.

When ordering, it is very important that actual WIDTH, HEIGHT, THICKNESS and WEIGHT of the door to be used are specified. Only when this information is supplied is it possible to furnish the proper size springs, angle-trusses, etc., necessary to assure a perfect job.



Public Garage
Door
16' Wide and
12' High

See page 35—
“How to Order”

Applied to
4 Used
Service Station
Doors

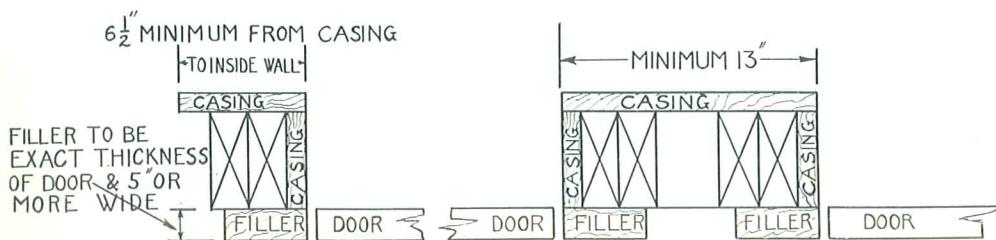


Battery of 30
No. 912
Installations



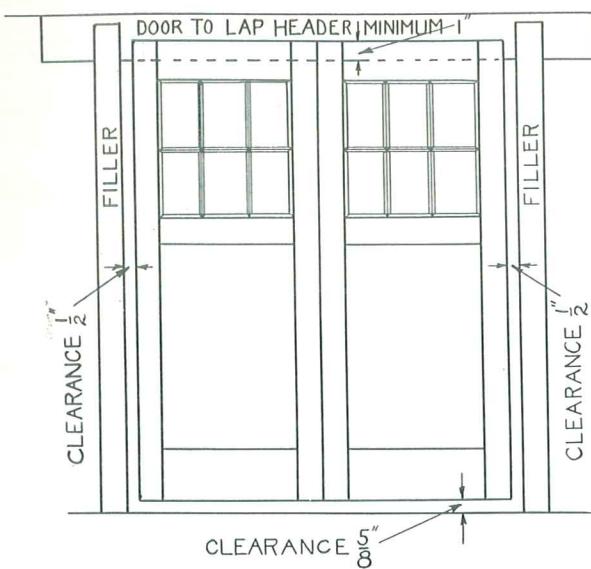
Over-the-TopTM Door Equipment

CLEARANCE SPECIFICATIONS No. 912

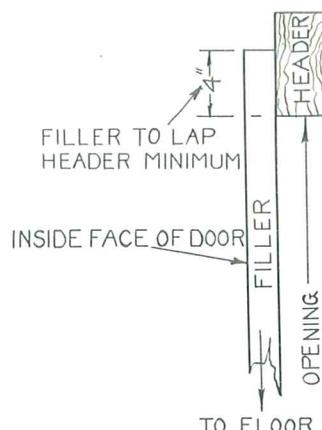


SIDE JAMB DETAIL

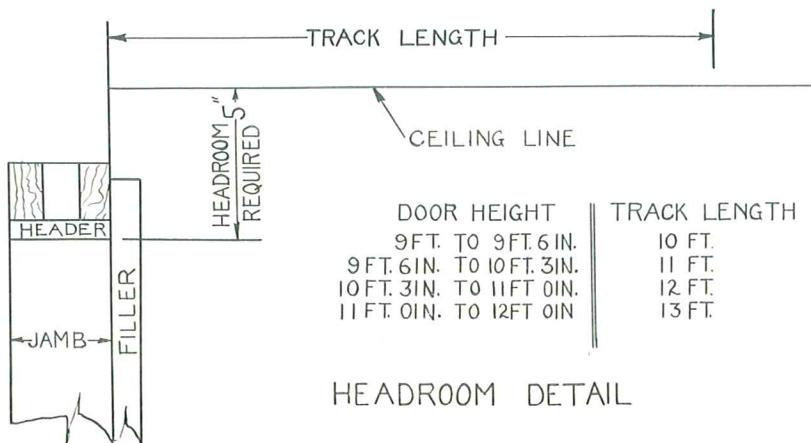
CENTER POST DETAIL FOR TWO OR MORE DOORS



DOOR CLEARANCE DETAIL



FILLER DETAIL



HEADROOM DETAIL

Common Angle Solid Truss Angle Adjustable Truss Angle**COMMON ANGLE**

The illustration above shows the common angle iron supports as supplied with all OVER-THE-TOP Sets for doors up to and including 9'11" in width.

These angles are properly punched for use with doors of two and three sections. Japanned finish.

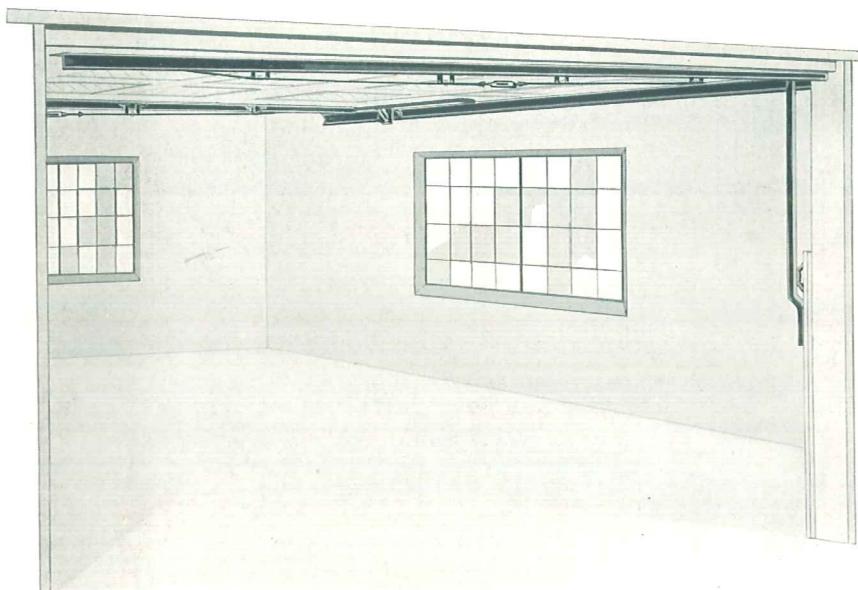
SOLID TRUSS

The solid truss angles shown above are supplied with OVER-THE-TOP Sets for doors from 10'0" to 11'11" wide. Truss rod is threaded both ends. A very strong, rigid support, which prevents sagging and warping. Japanned finish.

ADJUSTABLE TRUSS

The Adjustable Truss Angles are supplied with the No. 718 and No. 912 OVER-THE-TOP Sets for doors 12'0" to 18'0" in width. Their special design and construction give maximum support with a minimum of weight and lost space. Japanned finish.

APPLICATION OF TRUSS ANGLES



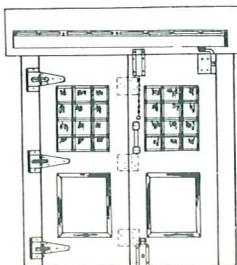
The illustration above shows the actual application of the adjustable truss angles as supplied with OVER-THE-TOP Sets for doors twelve to eighteen feet in width.

Due to the adjustment feature, these angles positively prevent the wide spans from sagging or warping, insuring a perfect fitting door under all conditions. Easily applied and require a minimum of space.

Each pair shipped knocked down and bundled.

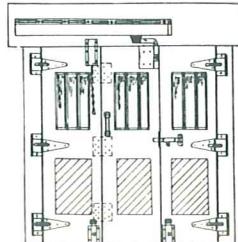
Weight, per pair, 100 pounds.

STANDARD INSTALLATIONS OF SLIDING-FOLDING GARAGE DOOR SETS

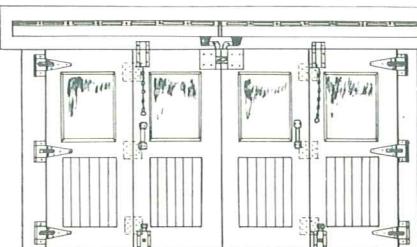


2-Door

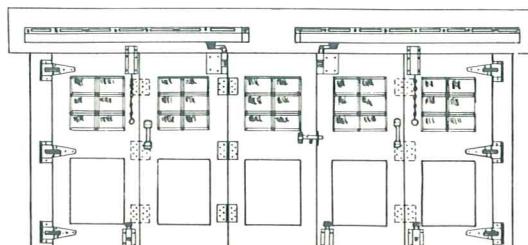
Illustrations show location
of hardware for installations of
Nos. 40, 50, 55, 60 Folding
Garage Sets.



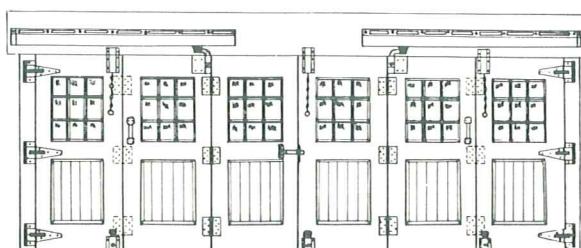
3-Door



4-Door



5-Door



6-Door

DIRECTIONS FOR INSTALLING SLIDING-FOLDING GARAGE SETS Nos. 40, 50, 55, 60

The Track must be at least 8-inches longer than the width of the two folding sections of the door. Figuring on this basis, doors of equal width up to and including 2'8" require six feet of track; up to and including 3'2", seven feet; up to and including 3'8", eight feet; up to and including 4'2", nine feet; up to and including 4'8", ten feet.

Width of Track Support.

No. 40 Set with ROLLAWAY Track	5½ inches or over
No. 50 Set with RUNWEL Track.....	7½ inches or over
No. 55 Set with RUNWEL Track.....	7½ inches or over
No. 60 Set with HILO Track.....	7½ inches or over

Fit doors into opening and fasten on all hardware except Hangers and Track.

To Erect Track: Strike a chalk line above the door opening—

ROLLAWAY Track.....	4¾ inches
RUNWEL Track.....	5½ inches
HILO Track.....	6¼ inches

Place the end of track a distance from the casing equal to the width of the two folding doors, which would be the farther edge of the second folding door. Put a lag screw in this end on the chalk line, holding up the other end of track temporarily with a nail.

To Fasten Hanger in place: Insert hanger in track and fasten flush to far upper corner of second folding door. Adjust hanger so that wheels rest firmly in track, then tighten lock nuts. Swing folding doors open gently, remove the nails supporting track, and force end of track up against wheels of the hanger so that weight of door is on track, then fasten with a lag screw. Verify track alignment with chalk line before putting in balance of lag screws.

To Attach Stop and Guide: Attach stop with doors in closed position so that the center line of pin in catch is the same height as center line of angle bolt, and not less than $\frac{1}{4}$ -inch away from hanger.

To Reverse Hanger: Take off part that bolts to the door and put on upside down. This is necessary when doors swing opposite to those shown in cuts on previous page.

GARAGE DOOR SET

No. 40

Patented



For doors weighing up to 250 pounds.

For use only with ROLLAWAY Track.

Easily and quickly installed. No brackets required as track lies flat against the building. Doors fold back entirely clear of the opening. Hardware may be applied either inside or outside of building. Supplied in 2-door and 3-door sets.

Following parts are included in the 3-door set:

1 No. 48 Hanger	1 No. 650 Foot Bolt
6 8-inch No. 67 Hinges	1 No. 31 Door Pull
3 4 x 4 No. 908 Butts	1 No. 194 Latch
1 No. 626 Chain Bolt	1 Pair No. 510 Padlock Eyes

6 Feet ROLLAWAY Track

Socket wrench, end stops for track and all necessary screws, etc., for installation.

Finish: Japanned.

Packed one set in a carton, track bundled separately.

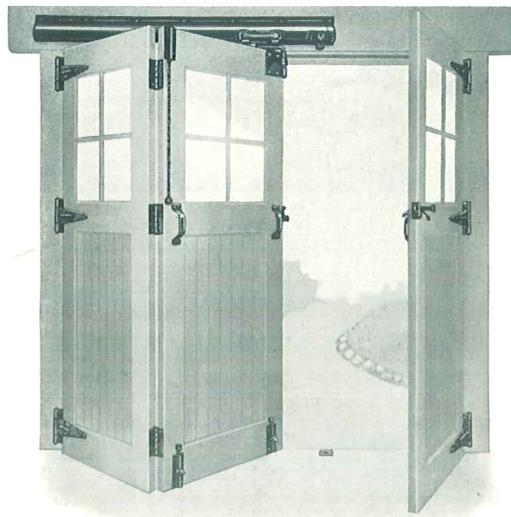
Weight, per 3-door set, including track, 24 pounds.

See page 50 for amount of track required for various sizes of openings.

GARAGE DOOR SET

No. 50

Patented



For doors weighing up to 450 pounds.

For use with RUNWEL Track.

Track lies flat against the building. No brackets required. Completely weather proof. Adjustable hanger cannot be derailed. Special hinges and hanger allow door to fold entirely clear of opening.

Furnished in complete sets for 2, 3, 4, 5 and 6-door openings.

Following parts are included in the 3-door set:

1 No. 58 Hanger	1 No. 290 Latch
6 8-inch No. 67 Hinges	1 No. 630 Chain Pull
2 No. 650 Foot Bolts	1 No. 31 Door Pull
1 No. 626 Chain Bolt	1 Pair No. 510 Padlock Eyes
3 No. 65 Offset Butts	6 Feet RUNWEL Track
Bolts, lag screws, wood screws, socket wrench and application instructions.	

Finish: Japanned.

Packed one set in a carton, track bundled separately.

Weight, per 3-door set, including track, 32 pounds.

No. 55 Garage Door Set

Identical to the No. 50 Set shown above, except it is supplied with 10-inch No. 67 Offset Hinges, No. 198 Door Latch and No. 30 Pull. Weight, per 3-door set, including track, 35 pounds.

See page 50 for amount of track required for various sizes of openings.

GARAGE DOOR SET

No. 60

Patented



For doors weighing up to 750 pounds and used with HILO Track.

Designed for large, heavy doors and to stand hard service. Extra heavy adjustable hanger with 3-inch wheels assures free and easy operation.

Furnished in complete sets for 2, 3, 4, 5 and 6-door openings.

Following parts are included in each 3-door set:

1 No. 68 Hanger	1 No. 630 Chain Pull
6 10-inch No. 67 Offset Hinges	1 No. 198 Latch
3 No. 65 Offset Butts	1 No. 29 Door Pull
1 No. 626 Chain Bolt	6 Feet HILO Track
2 No. 650 Foot Bolts	

Lag screws, bolts, screws, socket wrench and application instructions.

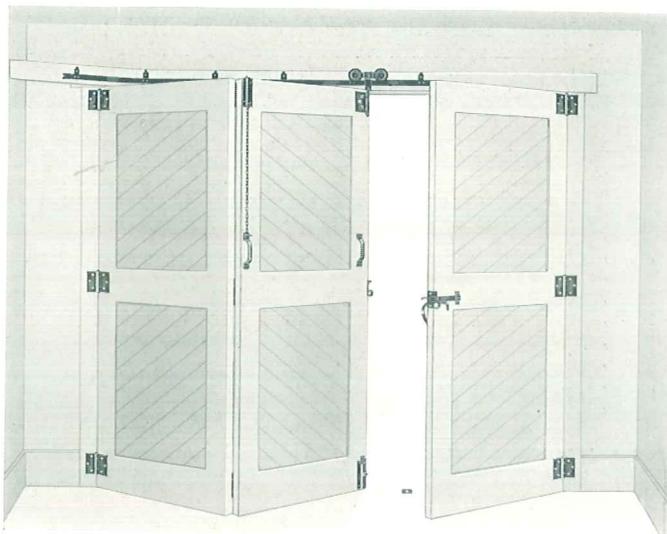
Finish: Japanned.

Packed one set in a case, track bundled separately.

Weight, per 3-door set, including track, 40 pounds.

See page 50 for amount of track required for various sizes of openings.

GARAGE DOOR SET No. 70



A low priced sliding-folding garage set using STANDARD Flat Rail. Doors fit snugly into the opening, making a weather-tight installation. May be installed either inside or outside the garage.

Furnished only for 3-door openings.

Following parts are included in each set:

1 No. 54 Swivel Hanger	1 No. 650 Foot Bolt
9 No. 64 Offset Surface Butts	1 No. 626 Chain Bolt
1 No. 194 Swinging Latch	1 No. 630 Chain Pull
1 No. 30 Door Pull	1 Piece 6-ft. length of STANDARD Rail
Lag screws, bolts, screws, socket wrench and instructions.	

Finish: Japanned.

Packed one set in a carton, track bundled separately.

Weight, per set, including rail, 22 pounds.

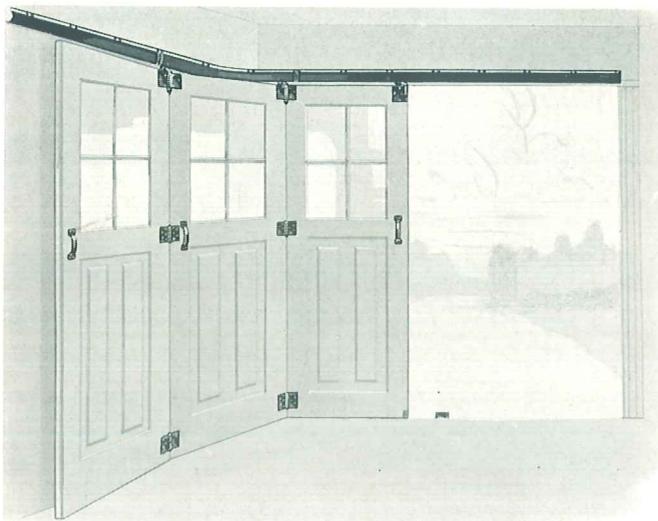
**TRACK REQUIRED
FOR SLIDING-FOLDING GARAGE SETS
Nos. 40, 50, 55, 60**

Width of Opening	Number of Door Sections per Opening				
	2	3	4	5	6
6'6"	8 feet	—	—	—	—
7'0"	8 feet	6 feet	—	—	—
7'6"	9 feet	6 feet	—	—	—
8'0"	9 feet	6 feet	10 feet	—	—
9'0"	10 feet	7 feet	11 feet	—	—
10'0"	—	8 feet	12 feet	10 feet	—
12'0"	—	9 feet	14 feet	12 feet	10 feet
14'0"	—	10 feet	16 feet	12 feet	10 feet
16'0"	—	—	18 feet	14 feet	12 feet
18'0"	—	—	20 feet	16 feet	14 feet
20'0"	—	—	22 feet	18 feet	16 feet
22'0"	—	—	24 feet	20 feet	16 feet
24'0"	—	—	—	—	18 feet

TRACK REQUIRED FOR AROUND-THE-CORNER SETS

Nos. 210, 212 USING LARGE CURVES			No. 211 USING SMALL CURVE		
Width of Opening Feet	Track Required Front Wall Feet	Track Required Side Wall Feet	Width of Opening Feet	Track Required Front Wall Feet	Track Required Side Wall Feet
8	6	7	8	7	8
9	7	8	9	8	9
10	8	9	10	9	10
12	8	10	12	9	11
14	10	12	14	11	13
16	12	14	16	13	15

AROUND-THE-CORNER GARAGE SET No. 210



For doors weighing up to 450 pounds, and for use with RUNWEL Track.

The three-door sections are hinged together and all operate around-the-corner to lie flat against the side-wall. The door section nearest the curve is used as the separate entrance door. Each set supplied complete with track and curve for an 8-foot opening. Furnished regularly for an 8-foot opening with 6 feet of track over door opening and 7 feet along side wall. When used on openings wider than 8 feet, additional track is required.

Following parts are included in the 3-door set:

1 No. 536 RUNWEL Curve	4 No. 69 Butts
2 No. 11 Swivel Hangers	1 No. 205 Floor Guide
1 No. 15 Swivel Hanger	1 4½-inch No. 715 Safety Hasp
3 No. 31 Door Pulls	2 No. 208 Door Noses

13 Feet RUNWEL Track

Lag screws, bolts, screws, socket wrench and application instructions.

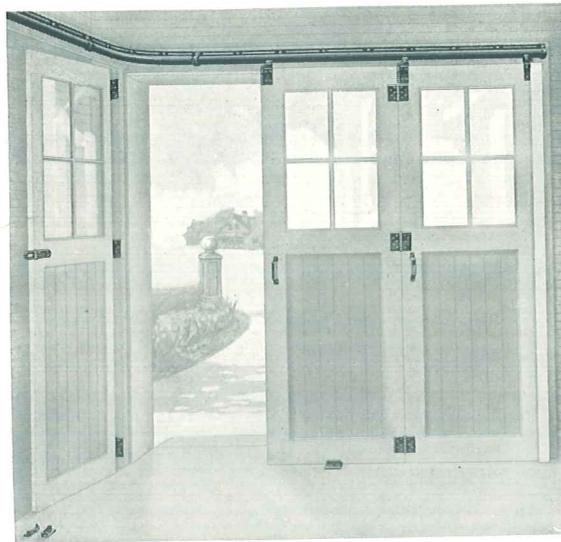
Finish: Japanned.

Packed one set in a carton, track and curve bundled separately.

Weight, per set, including track and curve, 44 pounds.

See page 50 for amount of track required for various sizes of openings.

AROUND-THE-CORNER GARAGE SET No. 211



For doors weighing up to 450 pounds, and for use with RUNWEL Track.

Doors fit snugly into the opening making a weather-tight installation. Separate entrance door hinged to jamb under curved section of track. Hangers are roller bearing, adjustable and cannot be derailed. Furnished regularly for an 8-foot opening with 6 feet of Track over door opening and 7 feet along side wall. When used on openings wider than 8 feet, additional track is required.

Following parts are included in each 3-door set:

3 No. 15 Hangers	2 No. 31 Door Pulls
3 No. 63 Flat Back Butts	1 4½-inch No. 715 Safety Hasp
3 8-inch No. 67 Offset Hinges	1 No. 516 RUNWEL Curve
2 No. 206 Floor Guides	13 Feet RUNWEL Track
Lag screws, bolts, screws, socket wrench and application instructions.	

Finish: Japanned.

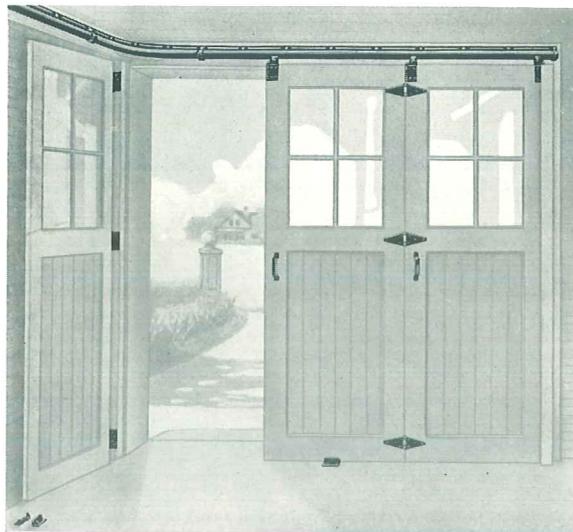
Packed one set in a carton, Track and Curve bundled separately.

Weight, per set, including Track and Curve, 45 pounds.

NOTE: All three doors may be hinged together to operate around-the-corner if desired.

See page 50 for amount of track required for various sizes of openings.

AROUND-THE-CORNER GARAGE SET No. 212



For doors weighing up to 250 pounds. For use only with ROLLAWAY Track and Curve.

Identical in operation to the No. 211 Set shown on preceding page, but designed for lighter weight doors.

Furnished regularly for an 8-foot opening with 6 feet of Track over door opening and 7 feet along side wall.

Doors fit snugly in the opening making a weather-tight job.

Following parts are included in each 3-door set:

3 No. 5 Hangers	2 No. 205 Floor Guides
3 5-inch Heavy Strap Hinges	2 No. 31 Door Pulls
3 8-inch No. 67 Hinges	1 No. 436 ROLLAWAY Curve
13 Feet ROLLAWAY Track	

Lag screws, bolts, screws, socket wrench and application instructions.

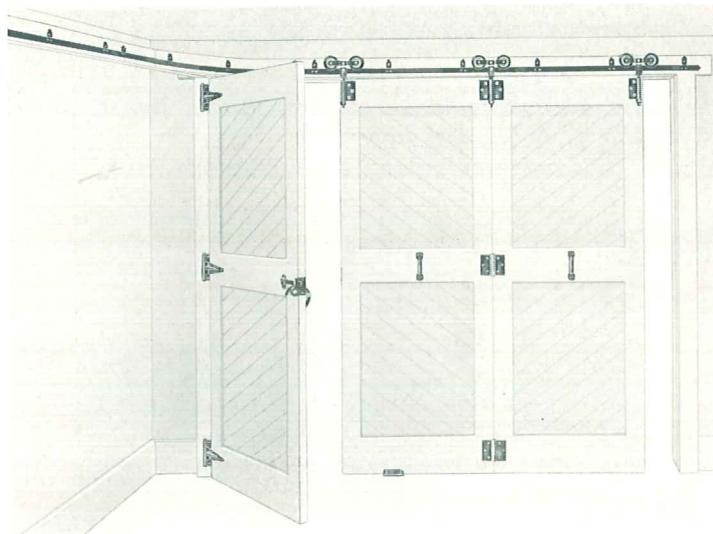
Finish: Japanned.

Packed one set in a carton, Track and Curve bundled separately.

Weight, per set, with Track and Curve, 31 pounds.

See page 50 for amount of track required for various sizes of openings.

AROUND-THE-CORNER GARAGE DOOR SET No. 214



A splendid low-priced garage set which provides the convenience of a separate entrance door. Doors hang directly under track. Tandem truck and special swivel construction allow the doors to operate smoothly.

Each set is supplied complete as follows:

1 No. 53 Hanger	1 No. 194 Latch
2 No. 53½ Hangers	1 No. 205 Floor Guide
3 8-inch No. 67 Offset Tee Hinges	2 No. 30 Door Pulls
2 No. 64 Surface Hinges	1 4-foot Curved Section
14 Feet STANDARD Flat Rail	

Necessary screws, bolts, parts and installation instructions.

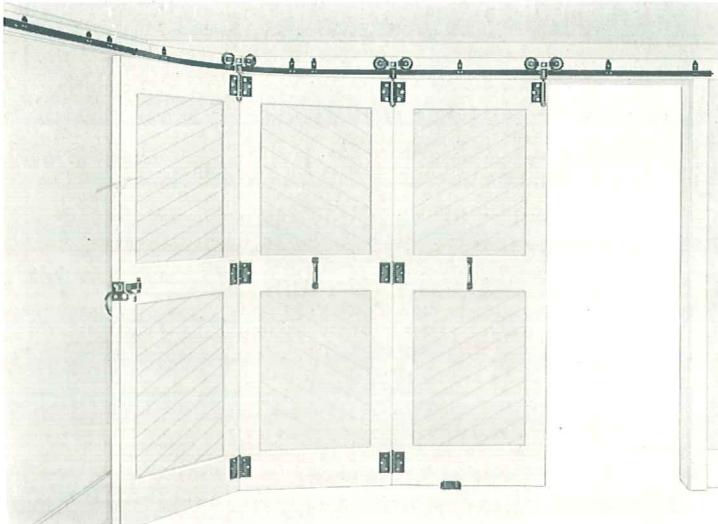
Finish: Japanned.

Packed one set in a carton, track and curve bundled separately.

Weight, per set, including track and curve, 36½ pounds.

AROUND-THE-CORNER GARAGE DOOR SET

No. 215



Similar to Set No. 214, except all sections are hinged together and slide around-the-corner as a single unit, with the convenience of a separate door entrance. Special hanger construction allows door to hang directly under the track and to operate smoothly and easily.

Each set is supplied complete as follows:

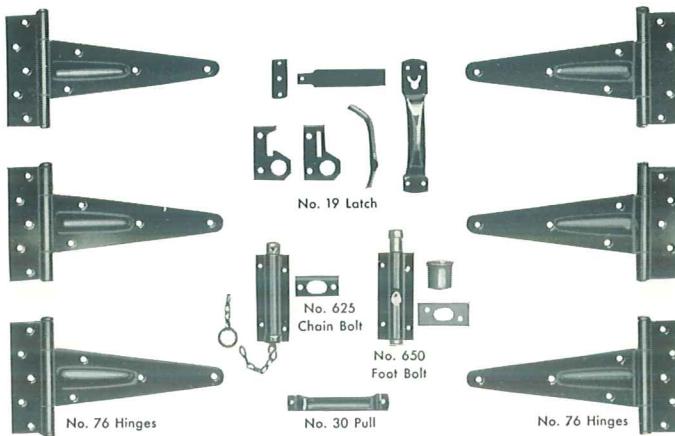
2 No. 53 Swivel Hangers	2 No. 30 Door Pulls
1 No. 53½ Swivel Hanger	1 No. 205 Floor Guide
4 No. 64 Surface Hinges	1 4-foot Curved STANDARD Flat Rail
1 No. 194 Latch.	14 Feet STANDARD Flat Rail
Necessary screws, bolts, parts and installation instructions.	

Finish: Japanned.

Packed one set in a carton, track and curve bundled separately.

Weight, per set, including track and curve, 35 pounds.

SWINGING GARAGE DOOR SET No. 411



A strong and substantial garage set with a high quality all-steel latch which can be locked with any style padlock. Hinges are loose pin, reversible, and are embossed for added strength and beauty. This set adaptable to frame, masonry and steel construction.

Set contains:

3 pairs 10-inch No. 76 Hinges	1 No. 650 Foot Bolt
1 No. 19 Latch	1 No. 625 Chain Bolt
1 No. 30 Door Pull	

Finishes: Japanned, Dead Black Japanned and Hot Galvanized.

Packed one set in a carton with screws and directions.

Weight, per set, $17\frac{1}{4}$ pounds.

Swinging Garage Door Set No. 410

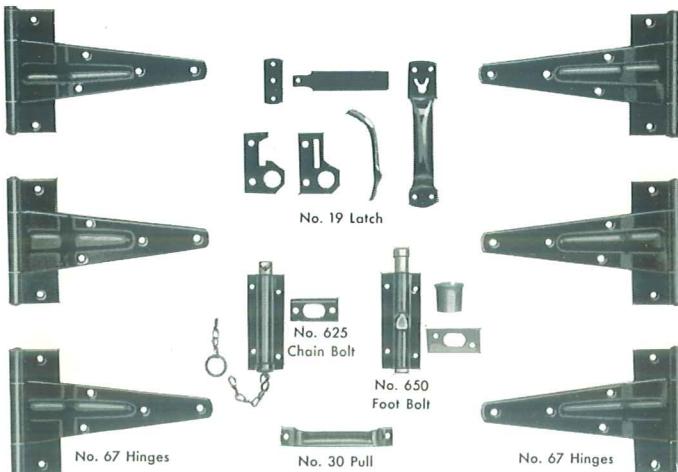
All items listed above in the No. 411 Set are packed in this set, with the exception that 8-inch Hinges are packed in the No. 410 instead of 10-inch as shown above.

Finishes: Japanned, Dead Black Japanned and Hot Galvanized.

Packed one set in a carton with screws and directions.

Weight, per set, $12\frac{3}{4}$ pounds.

SWINGING GARAGE DOOR SET No. 401



The No. 401 Set using 10-inch Offset Surface Hinges is intended for use on frame garages.

The No. 67 Hinges with offset allow the doors to swing entirely clear of the opening.

Set contains:

3 pairs 10-inch No. 67 Hinges	1 No. 30 Door Pull
1 No. 19 Positive Latch	1 No. 625 Chain Bolt
1 No. 650 Foot Bolt	

Finishes: Japanned, Dead Black Japanned and Hot Galvanized.

Packed one set in a carton with screws and directions.

Weight, per set, 17½ pounds.

Swinging Garage Door Set No. 400

Items listed above in the No. 401 Set are packed in this set, with the exception that 8-inch No. 67 Hinges are supplied instead of 10-inch No. 67.

Finishes: Japanned, Dead Black Japanned and Hot Galvanized.

Packed one set in a carton with screws.

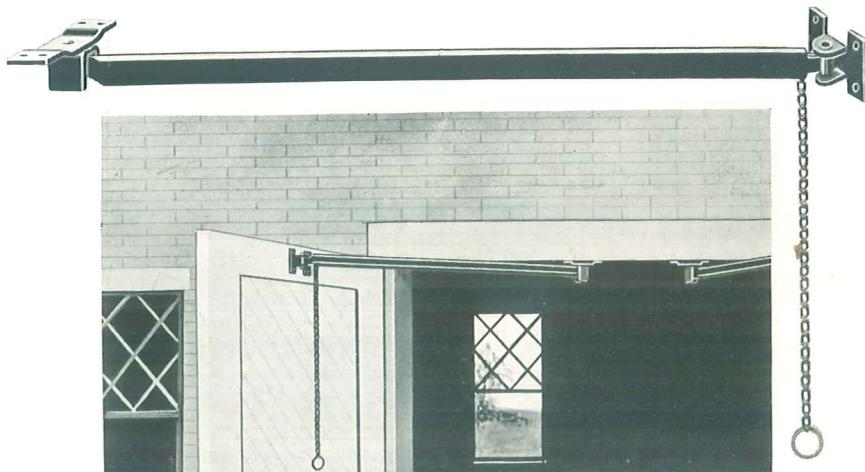
Weight, per set, 12¾ pounds.

DOOR HOLDER

Wrought Steel

No. 500

Patented



For use with single or double swinging doors.

Entirely automatic in operation, latching as door is opened. Positive, smooth, easy action. Folds back against top of door, out of the way, when door is closed. Doors are held securely when open preventing whipping in the wind, and damage to cars and doors when entering or leaving the garage.

Applicable to any size door. The automatic swivel guide adjusts itself to the position of the door. Holders are 32-inches long. Supplied with pull chain and ring.

Finishes: Japanned, Dead Black Japanned and Cadmium.

Packed one pair in a carton with screws, guide staple and installation instructions, one dozen pairs in a case.

Weight, per pair, $6\frac{1}{2}$ pounds.

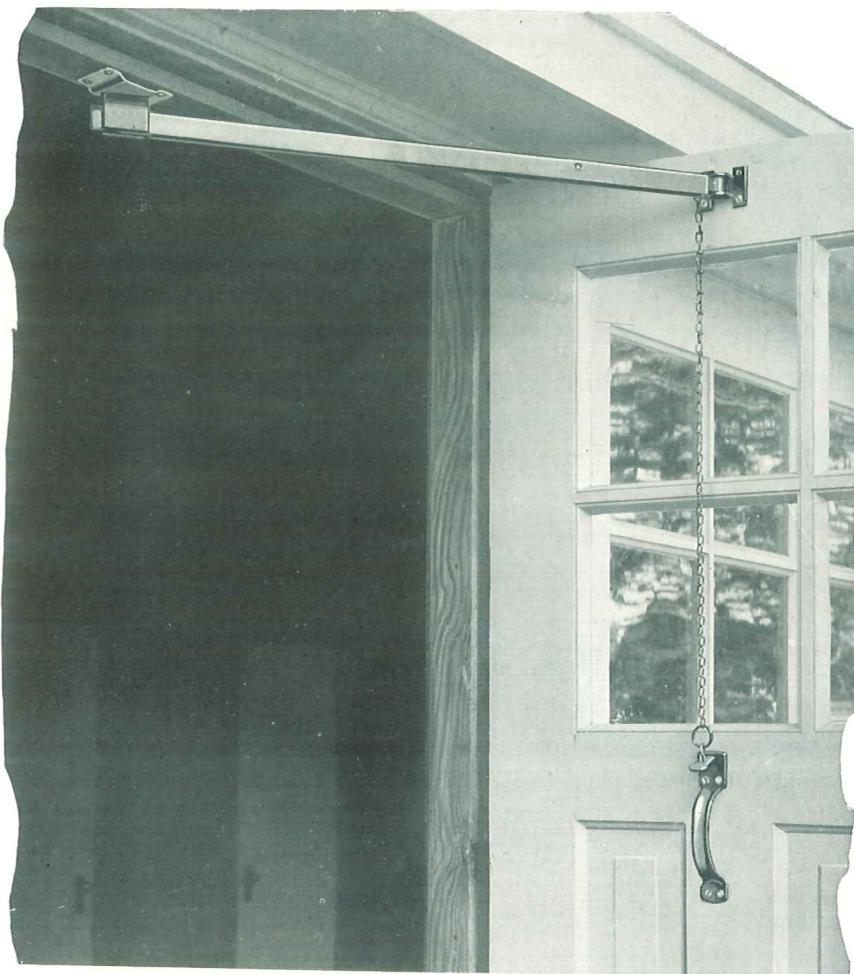
Weight, per case, 87 pounds.

DOOR HOLDER

Wrought Steel

No. 501

Patented



The No. 501 Door Holder is the regular No. 500 equipped with No. 630 Chain Pull. Thumb piece attached to pull chain. Closing operation is automatic.

Large pull, designed to fit any hand.

Finishes: Japanned, Dead Black Japanned and Cadmium.

Packed one pair in a carton with screws, guide staple and installation instructions, one dozen pairs in a case.

Weight, per pair, $7\frac{1}{2}$ pounds.

Weight, per case, 99 pounds.

FOOT BOLT

Wrought Steel

No. 650



Bolt formed round with open bottom so that it will operate perfectly even when dirt, ice or snow fills the strike. Position of bolt cannot be changed by jarring, due to brass friction spring which holds it in place. Nothing to break or get out of order.

Two strikes are furnished, a plate for wood floors and a bushing with expanded top for concrete.

Strikes are galvanized. Supplied in 6-inch size only.

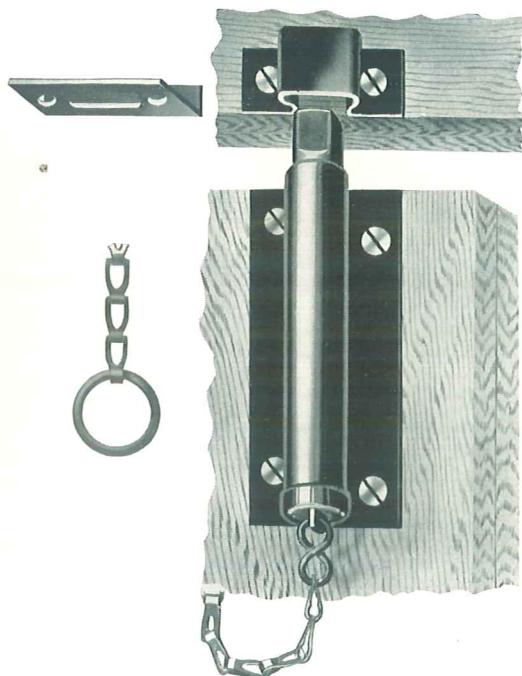
Finishes: Japanned and Cadmium.

Packed one-half dozen in a carton complete with strikes and screws.

Weight, per dozen, 12 pounds.

CHAIN BOLT

Flush Wrought Steel

No. 625**CHAIN BOLT**

Offset Wrought Steel

No. 626

NO. 625—The quick, positive action is due to the galvanized coil spring and beveled bolt. Engages every time the door is closed. Released by a slight pull on the chain. Bolt is easily reversible. Made in 6-inch size only.

Finishes: Japanned and Cadmium.

Packed complete with two strikes, guide staple and screws, one-half dozen in a carton.

Weight, per dozen, 12 pounds.

NO. 626—For use with doors that operate inside the building. Similar in size and construction to No. 625. Offset bolt is of galvanized steel. Action is easy, smooth and positive. Made in 6-inch size only.

Finishes: Japanned and Cadmium.

Packed complete with mortise strike, guide staple and screws, one-half dozen in a carton.

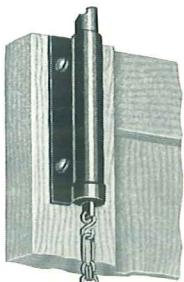
Weight, per dozen, 11 pounds.

CHAIN PULL AND BOLT SET

Wrought Steel

No. 631

Patented



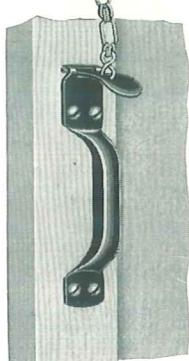
Consists of the following parts:

- 1 No. 650 Foot Bolt
- 1 No. 625 Chain Bolt
- 1 No. 630 Chain Pull
- Strikes and screws

Finishes: Japanned and Cadmium.

Packed one complete set in a carton, six dozen sets in a case.

Weight, per set, $2\frac{1}{2}$ pounds.



To be attached to the chain of any door holder or chain bolt. When used with a Chain Bolt the thumb piece releases the bolt and at the same time the door is opened.

When used with a Door Holder, the No. 630 serves as a pull and an automatic release for the door holder catch.

Finishes: Japanned, Dead Black Japanned and Cadmium.

Packed one-half dozen in a carton with screws.

Weight, per dozen, $4\frac{1}{2}$ pounds.



CHAIN PULL

Wrought Steel

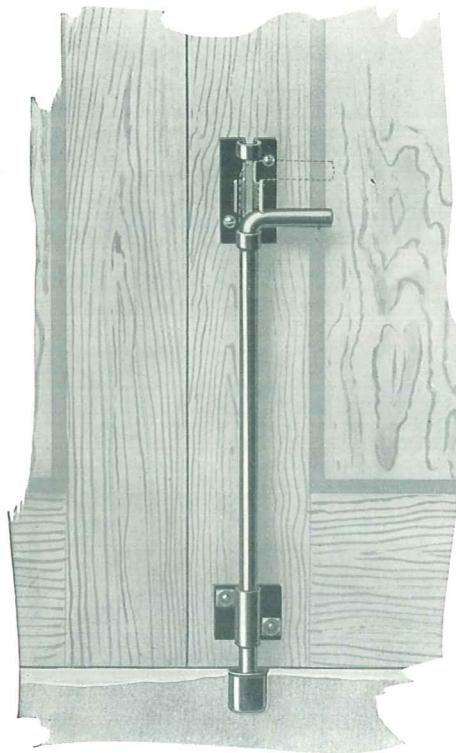
No. 630

Patented

CANE BOLT

Wrought Steel

No. 680



A most satisfactory means of holding doors open or closed. May be applied to doors of any thickness. Easily installed. Burglar-proof.

Strikes furnished are for frame or cement construction.

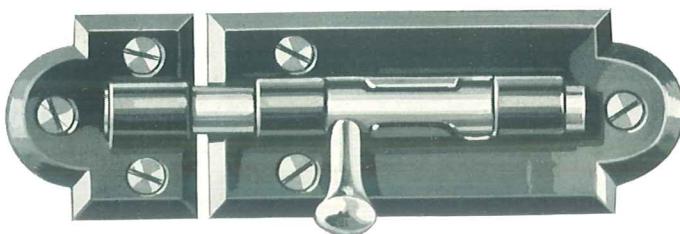
For cinder or dirt floors a piece of $\frac{3}{4}$ -inch pipe driven into the ground makes a satisfactory strike.

Size of bolt, $\frac{5}{8}$ x 18-inches.

Bolt is Cadmium finish, Case and Slide, Japanned finish.

Packed one-half dozen in a carton with strikes and screws.

Weight, per dozen, 30 pounds.

BARREL BOLT**Wrought Steel****No. 640**

Bolt is of one piece heavy steel rod. The steel latch lever, finished in Dull Brass, extends through and is securely riveted to the bolt.

Finish: Japanned.

Supplied in four sizes. Each size packed one dozen in a carton with strikes and flat head screws, one gross in a case.

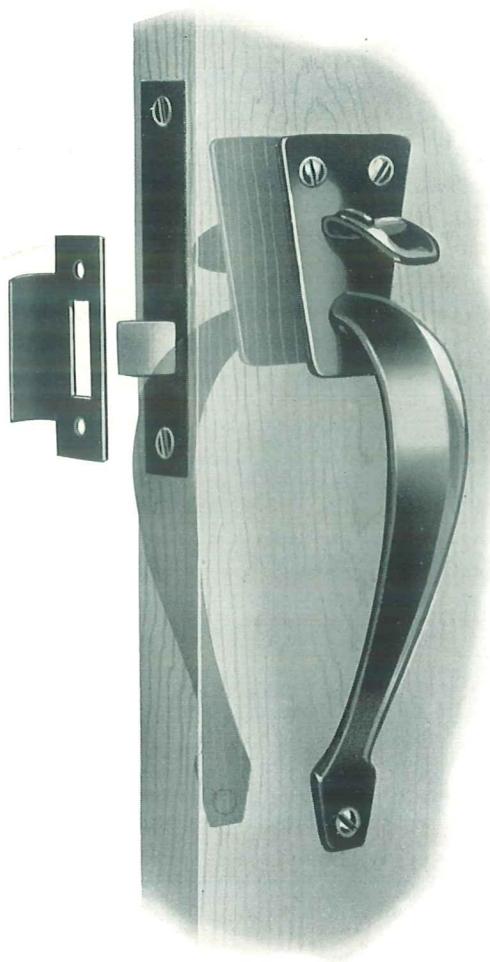
Weight, per dozen, $2\frac{1}{2}$ -inch, $1\frac{1}{2}$ pounds.

3 -inch, $1\frac{3}{4}$ pounds.

4 -inch, $2\frac{1}{2}$ pounds.

5 -inch, 3 pounds.

MORTISE LATCH No. 193



Case and escutcheons of heavy steel. Handle of cast iron, $9\frac{3}{4}$ -inches in length, is of beautiful and practical design. Handles are the same on both sides of door.

Simple in construction and easily applied. Nothing to break or get out of order. Reversible for right or left-hand doors. Spring is rust-proof.

For doors $1\frac{1}{8}$ -inches to $2\frac{1}{4}$ -inches in thickness.

Finishes: Japanned, Dead Black Japanned and Cadmium.

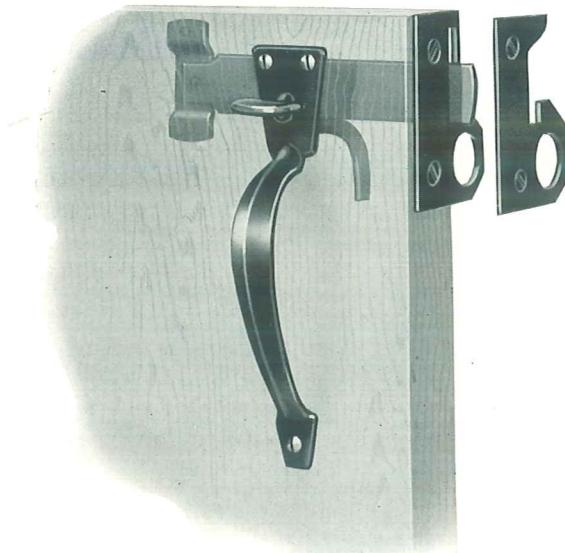
Packed one latch in a box with screws and installation instructions.

Weight, each, $3\frac{1}{4}$ pounds.

GARAGE DOOR LATCH

Wrought Steel

No. 194



Has large, well designed handle; length, over all, 7-inches. Combining the efficiency, strength and durability of the Positive Latch with the beauty of a high-grade door lock.

For doors from $1\frac{1}{8}$ -inches to $2\frac{1}{4}$ -inches thick.

Bar is $4\frac{1}{2}$ -inches in length.

May be locked with padlock through eyes in the mortised slide and strike. Thief-proof, as screws are hidden when door is locked. This latch packed in No. 40 and No. 70 Garage Sets.

Finishes: Japanned and Cadmium.

Packed one in a box with screws.

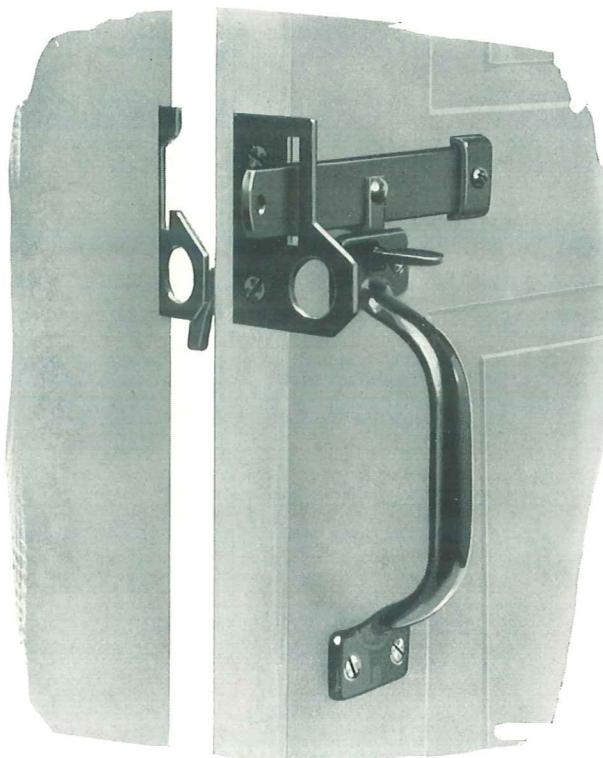
Weight, each, $1\frac{1}{4}$ pounds.

SWINGING DOOR LATCH

Wrought Steel

No. 290

Patented



Easily applied. Handle may be placed on either inside or outside of the door. Latch bar 6½-inches in length.

Full formed handle pull is 7½-inches long.

Strike and slide mortised to conceal screws.

May be locked with any style of padlock. The positive latching feature never fails to catch, no matter how fast or how slowly the door is closed.

For doors up to 2¼-inches in thickness.

Finishes: Japanned and Cadmium.

Packed one complete latch in a carton with screws and application instructions, two dozen in a case.

Weight, each, 1¼ pounds.

Weight, per case, 36 pounds.

SWINGING DOOR LATCH

Wrought Steel

No. 198

Patented

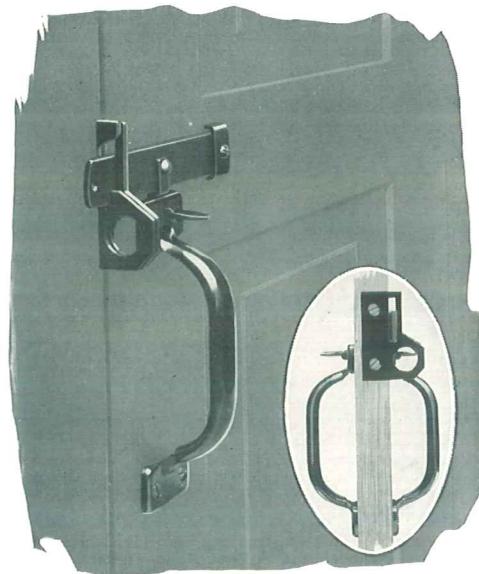
A positive latch having a large, well formed handle on each side of the door. Designed for use on garages and industrial buildings. May be locked with any style of padlock. Latch bar $6\frac{1}{2}$ -inches in length. Mortise slide and strike prevents removal of screws.

Finishes: Japanned, Dead Black Japanned and Cadmium.

Packed one latch in a carton with screws and application instructions, two dozen in a case.

Weight, each, $1\frac{1}{4}$ pounds.

Weight, per dozen, 18 pounds.



PADLOCK EYE

Wrought Steel

No. 510



Length, $2\frac{3}{4}$ -inches.

A thoroughly practical and inexpensive method of securing any swinging door. Used in pairs, one eye mortised into door, the other in corresponding position in the jamb. Screws are hidden when door is closed.

Finish: Japanned.

Packed one pair in an envelope with screws, one dozen pairs in a carton.

Weight, per dozen pairs, $3\frac{1}{4}$ pounds.

SWINGING DOOR LATCH**Wrought Steel****No. 195**

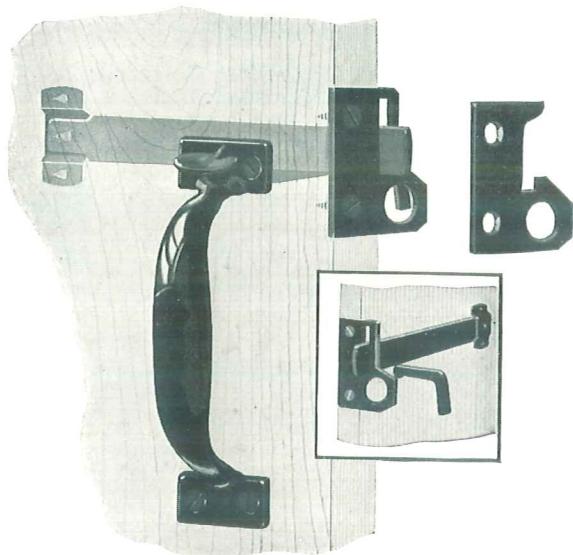
Has mortise slide and strike. Extra large handle of very attractive and practical design. Latch bar, 8-inches long. For right or left-hand doors. Has the FRANTZ positive latching feature. Screws concealed when door is closed. May be locked with padlock.

Finishes: Japanned, Dead Black Japanned and Cadmium.

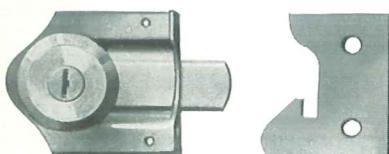
Packed one latch in a carton, one dozen in a case.

Weight, each, 1½ pounds.

Weight, per dozen, 22 pounds.

**CYLINDER LOCK LATCH****Wrought Steel****No. 522**

Patented



A simple, efficient, low priced latch with high quality cylinder lock. For right or left-hand doors.

Finish: Cadmium.

Packed one in a box with screws and two keys.

Weight, each, 1 pound.

POSITIVE SWINGING DOOR LATCH

Wrought Steel

No. 25

Patented

A heavy, serviceable latch for all types of swinging doors. Right or left-hand. No cutting or mortising required to install. Guaranteed to latch every time. Back strike to hold door open.

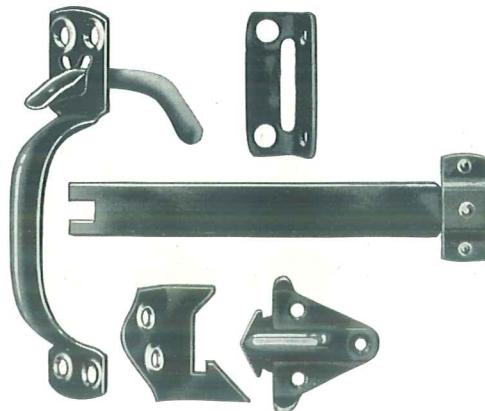
Has 8-inch Latch Bar.

Finishes: Japanned and Cadmium.

Packed one in a box with screws and template, two dozen in a case.

Weight, each, $1\frac{1}{2}$ pounds.

Weight, per case, 37 pounds.

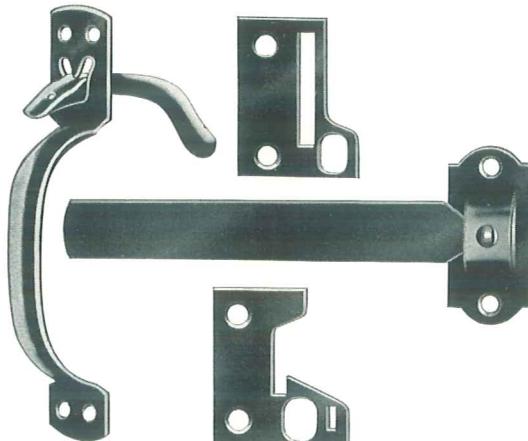


POSITIVE SWINGING DOOR LATCH

Wrought Steel

No. 20

Patented



Similar to No. 25 but supplied with longer thumb piece.

Has 8-inch Latch Bar.

Strike and slide mortised to conceal screws.

Finishes: Japanned and Cadmium.

Packed one in a box with screws and template, two dozen in a case.

Weight, each, $1\frac{1}{2}$ pounds.

Weight, per case, 37 pounds.

No. 19 Latch

Identical to the No. 20, except Latch Bar is $4\frac{1}{2}$ -inches in length. For use on stock garage doors. Is supplied with Nos. 400, 401, 410, 411 Garage Sets.

Finishes: Japanned and Cadmium.

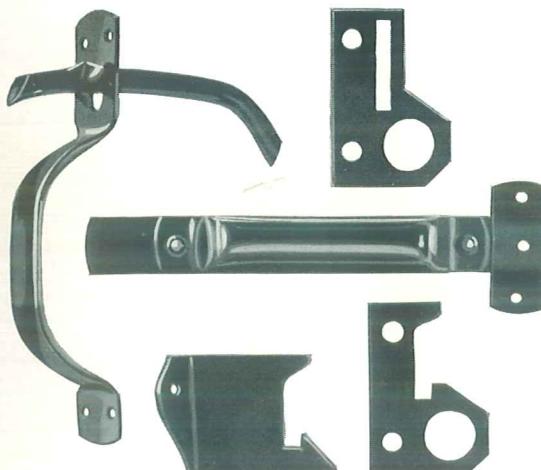
Packed one in a box with screws and template.

Weight, each, $1\frac{1}{4}$ pounds.

POSITIVE SWINGING DOOR LATCH

Wrought Steel

No. 22



Similar to No. 25 except that a handle is riveted to latch bar. Mortise slide and strike may be locked with padlock.

Finishes: Japanned and Cadmium.

Packed one in a box with screws and template, two dozen in a case.

Weight, each, $1\frac{1}{2}$ pounds.

Weight, per case, 40 pounds.

COTTAGE SWINGING DOOR LATCH

Wrought Steel

No. 26

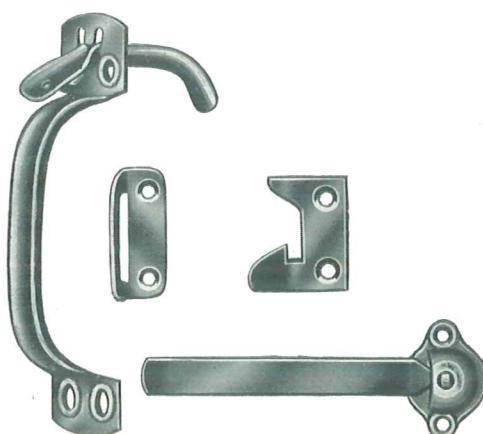
A positive latch for lighter weight doors. Unbreakable. Easily applied.

Finishes: Japanned and Cadmium.

Packed one in a box with screws, three dozen in a case.

Weight, each, $\frac{1}{2}$ pound.

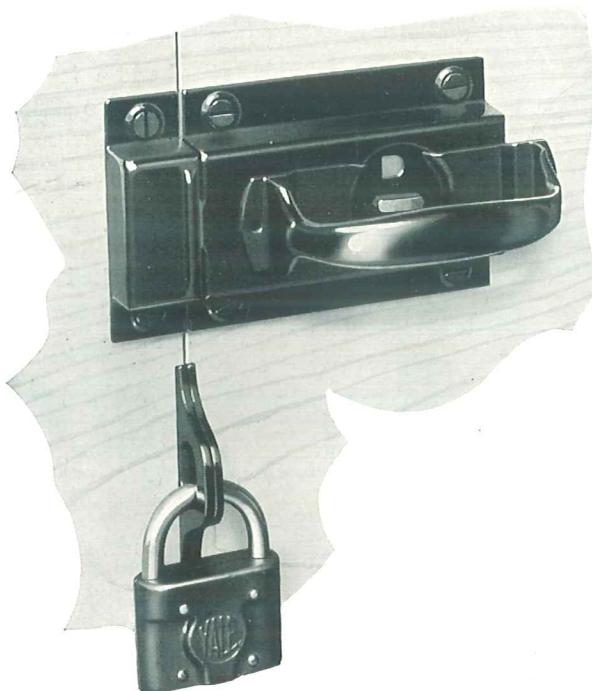
Weight, per case, 22 pounds.



SWINGING DOOR LATCH

Wrought Steel

No. 23



Adjustable for doors $\frac{3}{4}$ -inch to $2\frac{1}{4}$ -inches thick.

For use on Garages, Barns, Warehouses, Factories and Commercial Buildings.

Has rust-proof latch bolt and solid brass operating spring. Large, smooth well-shaped handle on each side of the door. Padlock eyes are packed with each latch.

Screws in padlock eyes are concealed when door is closed, and cannot be removed.

Finishes: Japanned and Cadmium.

Packed one in a box complete with screws, back strike for holding door open, padlock eyes, screws and application instructions, one dozen in a carton.

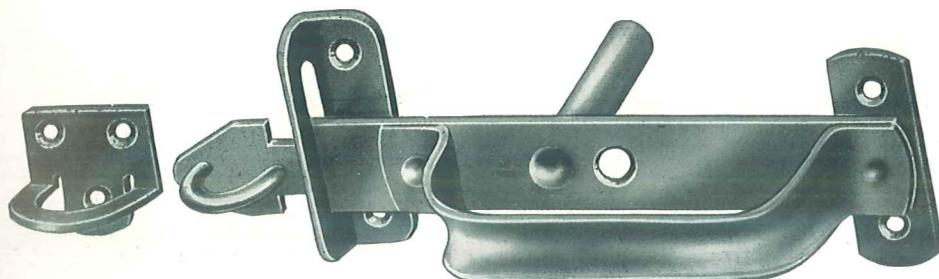
Weight, each, 2 pounds.

Weight, per dozen, 30 pounds.

SLIDING DOOR LATCH

Wrought Steel

No. 24



For use with right-hand or left-hand sliding doors.

Inside is flush with inside of door, allowing the door to slide entirely clear of the opening.

Pull is of generous size, strongly riveted to the latch bar.

Completely assembled to simplify application.

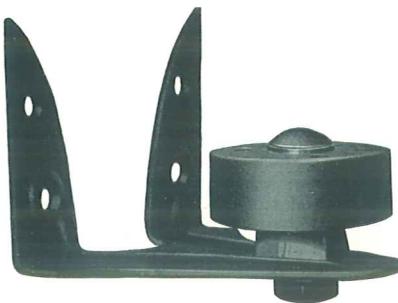
Plate staple with padlock eye formed of one piece of steel.

Finish: Japanned.

Packed one-half dozen in a box with screws.

Weight, per dozen, 10 pounds.

STAY ROLLER No. 105



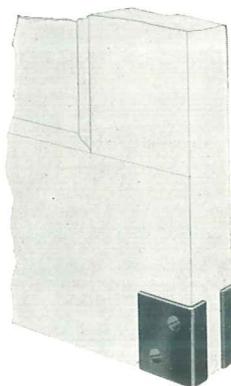
Reversible and Adjustable. Frame is of steel, roller and square axle of cast iron. Will not rust tight. Screw holes far apart and frame embossed for additional strength. May be used in concrete, brick or frame construction.

Finish: Japanned.

Tied one dozen in a bundle.

Weight, per dozen, 10 pounds.

DOOR NOSE No. 208



A practical, low-priced protection for the corners of sliding doors. Prevents splintering.

Length, $2\frac{1}{8}$ -inches; width, 2-inches.

Finish: Japanned.

Packed one dozen sets in a carton with screws.

Weight, per dozen sets, 3 pounds.

DOOR STOP

Wrought Steel

No. 108



A heavy, substantial stop for sliding doors.

Has embossed brace which is riveted to stop.

Serves also as a holder to prevent door from swinging out at bottom, preventing damage to door and building.

Will accommodate doors up to 2 $\frac{3}{4}$ -inches in thickness.

Finish: Japanned.

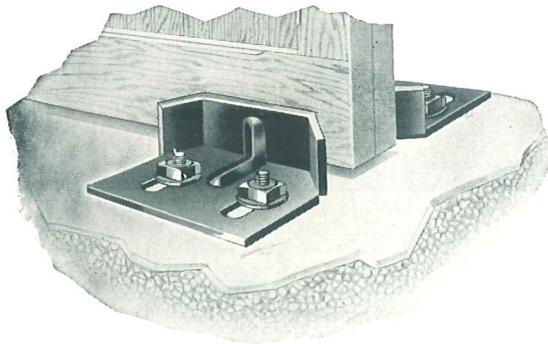
Packed one dozen in a box with lag screws.

Weight, per dozen, 16 pounds.

FLOOR GUIDE

Wrought Steel

No. 205



For use with single or double sliding doors. Anchor bolts offset to hold them firmly in floor. Adjustable for doors of all thicknesses.

Finish: Japanned.

Packed one in a carton with bolts, nuts and washers.

Weight, each, $\frac{3}{4}$ pound.

FLOOR GUIDE

Wrought Steel

No. 206

A very substantial and durable guide for use with single or double doors. Adjustable for doors of all thicknesses.

Finish: Japanned.

Packed one in a carton with screws, bolts, nuts and washers.

Weight, each, 1 pound.



FLOOR GUIDE

Wrought Steel

No. 207

For use with Parallel Doors. Applied in the center of the opening. Adjustable for doors of all thicknesses.

Finish: Japanned.

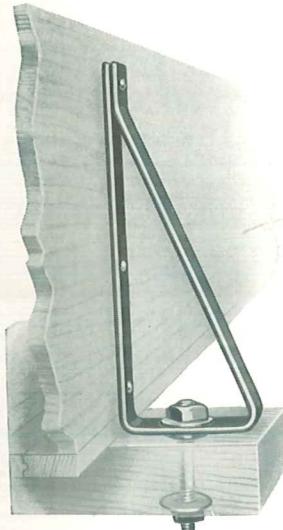
Packed one in a carton with screws, bolts, nuts and washers.

Weight, each, $2\frac{1}{4}$ pounds.

GRAIN BED BRACE

Wrought Steel

No. 705



Braces are 9-inches high, not including bolts. Slotted hole permits adjustment for side boards of various thicknesses. A quick and easy method of making a substantial grain bed. Side boards quickly removable by loosening either top or bottom nut.

Finish: Japanned.

Packed one complete set of 8 braces with bolts in a carton.

Weight, per set, 15 pounds.

WASHERS

Wrought Steel

No. 800



Accurately sized and of uniform thickness.

Made in $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ -inch sizes.

Packed 5 pounds in a carton.

WAGON STAKE STAPLE**Wrought Steel****No. 100**

No.	Extreme Length, Inches	Size of Stake, Inches	Depth, Inches	Diameter of Holes, Inches	Weight per Dozen, Pounds
100-A	7	$1\frac{1}{2} \times 2\frac{1}{2}$	$2\frac{1}{2}$	$\frac{3}{8}$	$14\frac{1}{2}$
100-B	$7\frac{1}{4}$	$1\frac{1}{2} \times 2\frac{3}{4}$	$2\frac{3}{4}$	$\frac{3}{8}$	$16\frac{1}{2}$

Made of $\frac{3}{16}$ -inch steel and in two sizes.

To be applied with $\frac{3}{8}$ -inch bolts. Made in two sizes as per specifications above.

Finish: Japanned.

No. 89 Bar Staple**Wrought Steel**

Both the No. 88 and No. 89 Bar Staples are made of $\frac{1}{4}$ -inch steel, $1\frac{3}{4}$ -inches wide. Very heavy and durable. Made to accommodate 2 x 4 stake or bar. May be applied with bolts or lag screws.

Finish: Japanned.

Packed in bulk.

Weight, per dozen:

No. 88, Closed, 22 pounds.

No. 89, Open, 15 pounds.

No. 88 Bar Staple

STAKE POCKET**Wrought Steel****No. 200**

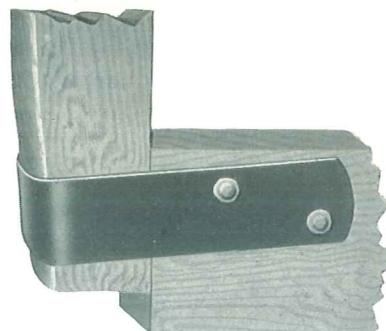
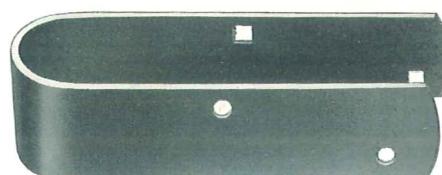
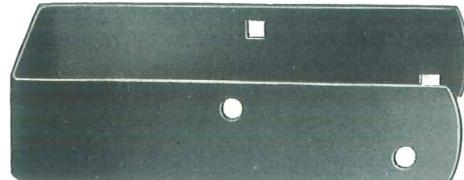
For use on the ends of the crosspieces of wagon and truck bodies. Square holes to prevent carriage bolts from turning when being tightened.

Made of No. 11 gauge steel, 2-inches wide. Round end to fit formed stakes.

Finish: Japanned.

Supplied in bulk.

Weight, per dozen, 13 pounds.

**STAKE POCKET****Wrought Steel****No. 201**

Identical in size, weight and finish to the No. 200, except that the end is formed square for flat stakes.

Finish: Japanned.

Supplied in bulk.

Weight, per dozen, 13 pounds.

DOOR PULLS

Wrought Steel

No. 30



Suitable for large doors and gates. Has two screw holes in each end.

Length, overall, 6 $\frac{3}{4}$ -inches.

Finish: Japanned.

Packed one dozen in a box with screws.

Weight, per dozen, 3 $\frac{1}{4}$ -pounds.

No. 31



Length, overall, 5 $\frac{3}{4}$ -inches.

Finish: Japanned.

Packed one dozen in a box with screws.

Weight, per dozen, 2 pounds.

No. 29



An extra large pull for heavy duty. Two screw holes in each end.

Length, overall, 8 $\frac{1}{4}$ -inches.

Finishes: Japanned and Cadmium.

Packed one dozen in a box with screws.

Weight, per dozen, 4 $\frac{1}{4}$ -pounds.

DOOR PULLS

Wrought Steel

No. 300



Length, overall, 4 $\frac{3}{4}$ -inches.

Furnished in Japanned and all standard plated finishes.

Packed one-quarter gross in a box with screws.

Weight, per gross, 6 $\frac{3}{4}$ pounds.

No. 32



Length, overall, 4 $\frac{5}{8}$ -inches.

Furnished in Japanned and all standard plated finishes.

Packed one-quarter gross, with screws, in a carton.

Weight, per gross, 10 pounds.

SCREEN LIFT

Wrought Steel

No. 35



Suitable for light doors, sash and screens.

Length, overall, 3 $\frac{3}{4}$ -inches.

Finishes: Japanned and Cadmium.

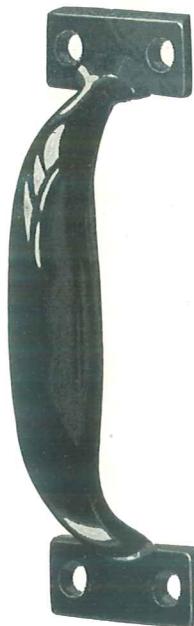
Packed one-half gross in a box with screws. Also furnished in bulk without screws.

Weight, per gross, 5 pounds.

DOOR PULL

Wrought Steel

No. 190



Size	Length of Pull, Inches	Width of Pull at Ends, Inches	Number of Dozens in Case	Weight per Dozen, Pounds	Weight per Case, Pounds
A	5	1 1/4	12	1 1/2	21
B	5 3/4	1 1/2	12	2 1/4	30
C	6 1/2	1 3/4	12	2 3/4	36
D	7 1/4	1 3/4	12	3 3/4	44

Designed to fit the hand perfectly. Its graceful lines add considerably to the appearance of the door to which it is applied.

Finishes: Japanned, Dead Black Japanned, Cadmium, Dull Brass and Antique Copper.

All sizes packed one dozen in a box with screws.

HINGE HASP**Wrought Steel****No. 96**

A very strong, substantial Hinge Hasp for heavy duty. Square hole for carriage bolt to prevent removal from outside. Screws in staple are covered when hasp is closed. Made of $\frac{5}{32}$ -inch steel. Extreme length, 7½-inches; width, 1¾-inches. Uses 1¼ x 11-screws.

Finishes: Bright Steel, Japanned, Cadmium and Hot Galvanized, Brass Pin.

Packed one in a box with screws.

Weight, each, 1 pound.

HINGE HASP**Wrought Steel****No. 712**

Length of Strap, Inches	Number of Screws	Size of Screws	Weight per Dozen, Pounds	Number of Dozens in Barrel	No. 712 Scs. Weight per Dozen with Screws, Pounds
3	7	3/4 x 7	2 1/4	250	25
4	7	3/4 x 7	2 3/4	175	32
6	8	1 x 8	4 1/2	100	55
8	8	1 x 8	7	60	75

Made in four sizes.

Finishes: Bright Steel, Hot Galvanized and Hot Galvanized, Brass Pin.

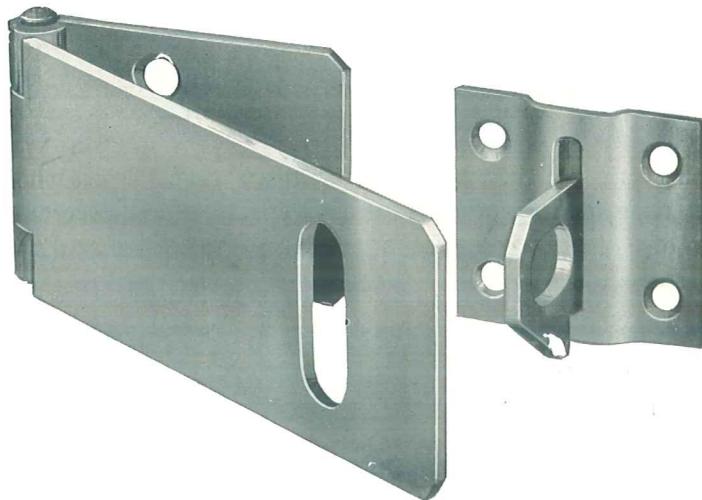
Packed one in a box with screws or tied in bundles of two without screws.

SAFETY HASP

Wrought Steel

No. 717

Patented



Length of Strap, Inches	Width at Joint, Inches	Size of Screws	Number of Screws	Weight per Dozen without Screws, Pounds	No. 717 Scs. Weight per Dozen with Screws, Pounds
$3\frac{1}{4}$ $4\frac{1}{2}$	$1\frac{1}{2}$ $1\frac{1}{2}$	1×8 1×8 1×8 1×10	7 7 4 5	$3\frac{1}{4}$ $4\frac{1}{2}$	$3\frac{1}{2}$ 5
6	$1\frac{7}{8}$			$\frac{1}{2}$	$8\frac{1}{4}$

A combined safety hasp and latch.

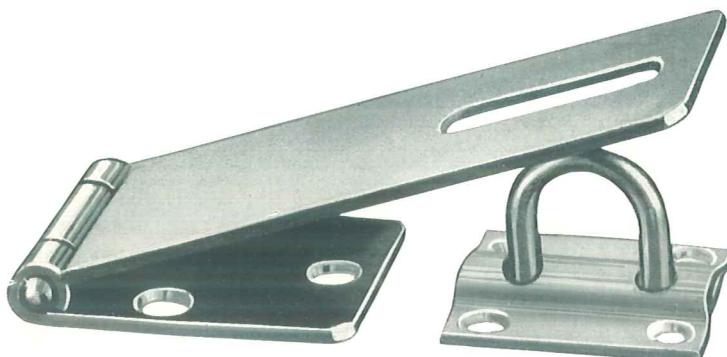
Used as a latch, the hook automatically engages the hasp, holding it securely. Hasp-slot is of sufficient size to allow for shrinking or warping of door.

The eye in the staple hook will accommodate all standard padlocks.

When closed, all screws are covered and cannot be removed.

Furnished in Bright Steel, Japanned and all standard plated finishes.

Packed one in a box with screws, also one dozen in a box without screws.

SAFETY HASP**Wrought Steel****No. 715**

Length of Strap, Inches	Width at Joint, Inches	Size of Screws	Number of Screws	Weight per Dozen without Screws, Pounds	No. 715 Scs. Weight per Dozen with Screws, Pounds
$3\frac{1}{4}$ $4\frac{1}{2}$	$1\frac{1}{2}$ $1\frac{1}{2}$	1×8 1×8 1×8 1×10	7 7 4 5	$3\frac{1}{4}$ $4\frac{1}{2}$ }	4 $5\frac{1}{2}$ $8\frac{1}{4}$ $9\frac{1}{2}$
6	$1\frac{7}{8}$	{			

The wide slot and special "loose" construction of the plate staple assure perfect operation even if the door should sag.

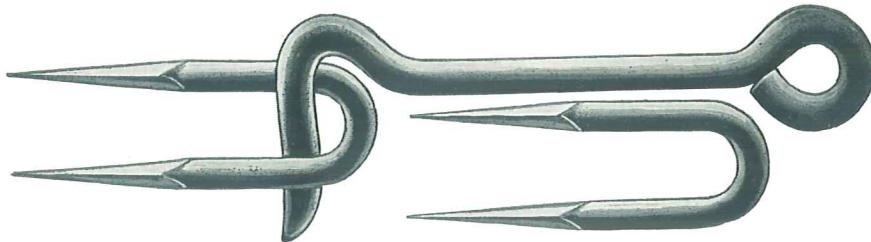
The slot is cut lengthwise for greater strength.

Furnished in Bright Steel, Japanned and all standard plated finishes.

Packed one in a box with screws. Can also be supplied one dozen in a box without screws.

WIRE HOOKS AND STAPLES

No. 38



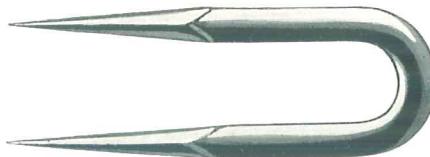
Length, Inches	Diameter, Inches	Weight per Gross, Pounds
4	$\frac{1}{4}$	19
$4\frac{1}{2}$	$\frac{1}{4}$	20
5	$\frac{5}{16}$	29
6	$\frac{5}{16}$	35

Finish: Bright Steel.

Packed one-quarter gross in a carton.

WIRE STAPLE

No. 714



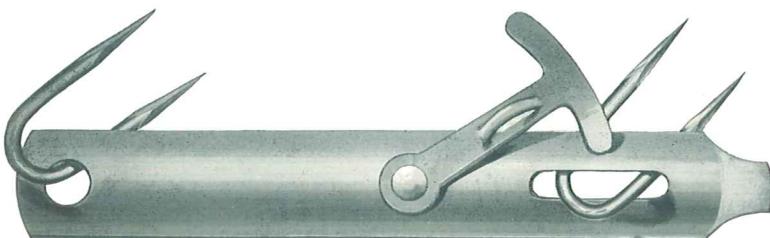
Length, Inches	Size of Wire	Weight per Gross, Pounds
1	.120	$\frac{3}{4}$
$1\frac{1}{4}$	.120	1
$1\frac{1}{2}$	.148	$1\frac{3}{4}$
$1\frac{3}{4}$	.148	$2\frac{1}{4}$
2	.162	$3\frac{1}{4}$
$2\frac{1}{4}$	.162	$3\frac{3}{4}$
$2\frac{1}{2}$	.162	$4\frac{1}{4}$
$2\frac{3}{4}$	.162	$4\frac{3}{4}$
3	.187 $\frac{1}{2}$	$6\frac{3}{4}$
$3\frac{1}{2}$	.187 $\frac{1}{2}$	$8\frac{1}{4}$
4	.207	$10\frac{1}{4}$

Sizes 1-inch to 3-inch are packed one gross in a box; 3 $\frac{1}{2}$ -inch and 4-inch, one-half gross in a box.

HASPS, HOOKS AND STAPLES

Wrought Steel

No. 36



Supplied in three sizes and in Bright Steel only.

Bar is slightly rounded for strength and to prevent hook from rusting fast. Hook is improved and attached to bar with galvanized shoulder rivet. Cannot bind nor stick.

Packed one dozen in a box.

Weight, per dozen, 6-inch, $2\frac{3}{4}$ pounds.

8-inch, $3\frac{3}{4}$ pounds.

10-inch, $4\frac{1}{2}$ pounds.

PLATE STAPLE

Wrought Steel

No. 713



Made in two sizes. Heavy wire staples securely riveted to plate. Holes accurately punched and countersunk. Furnished only in Bright Steel.

Tied one dozen in a bundle.

Plate size, $1\frac{3}{4} \times 1\frac{1}{4}$ " for 3-inch and 4-inch Hinge Hasps.

Plate size, $1\frac{3}{4} \times 1\frac{1}{2}$ " for 6-inch and 8-inch Hinge Hasps.

Weight, per dozen, 3 and 4-inch, $\frac{3}{4}$ pound.

6 and 8-inch, 1 pound.

315-111

LIGHT STRAP HINGE**Wrought Steel****No. 700**

Length Inches	Width at Joint Inches	Number Screws	Size of Screws	Weight per Dozen Pairs Pounds	Dozen Pairs in Barrel	No. 700 Scs. Weight per Hundred Pairs with Screws Pounds
3	1 $\frac{3}{16}$	6	3/4 x 7	2 1/2	225	33
4	1 $\frac{3}{16}$	6	3/4 x 7	4	175	45
5	1 $\frac{13}{16}$	8	1 x 8	6	100	65
6	1 $\frac{5}{8}$	8	1 x 8	7 3/4	80	86
8	1 $\frac{29}{32}$	8	1 x 8	13 1/4	48	136

Supplied in bulk or packed one pair in a box with screws.

Finishes: Bright Steel, Hot Galvanized, Steel Pin, and Hot Galvanized, Brass Pin.

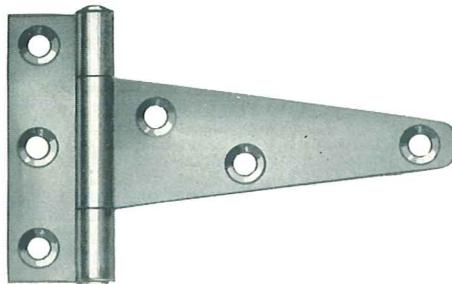
HEAVY STRAP HINGE**Wrought Steel****No. 702**

Length Inches	Width at Joint Inches	Number Screws	Size of Screws	Weight per Dozen Pairs Pounds	Dozen Pairs in Barrel	No. 702 Scs. Weight per Hundred Pairs with Screws Pounds
4	1 $\frac{9}{16}$	6	1 x 8	6 1/2	110	70
5	2	8	1 x 10	11 1/4	85	120
6	2 $\frac{1}{2}$	8	1 1/4 x 11	17 3/4	52	180
8	3 $\frac{1}{16}$	8	1 1/4 x 12	32	32	304
10	3 $\frac{5}{16}$	8	1 1/2 x 14	51	19	475
12	3 $\frac{7}{8}$	10	1 3/4 x 16	69	14	670
14	3 $\frac{1}{8}$	10	1 3/4 x 16	90	8	766

Supplied in bulk, or packed one pair in a box with screws.

Finishes: Bright Steel, Hot Galvanized, Steel Pin, and Hot Galvanized, Brass Pin.

LIGHT TEE HINGE
Wrought Steel
No. 704

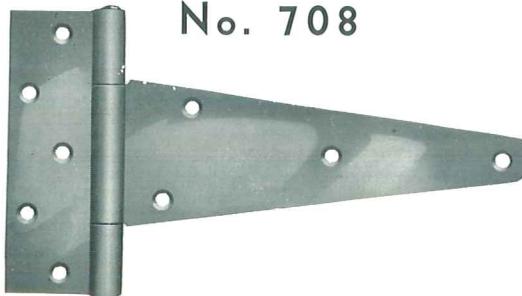


Length Inches	Length of Joint Inches	Width of Strap at Joint Inches	Number of Screws	Size of Screws	Weight per Dozen Pairs Pounds	Number of Dozen Pairs in Barrel	No. 704 Scs. Weight per Hundred Pairs with Screws Pounds
3	2 $\frac{1}{4}$	1 $\frac{1}{8}$	6	$\frac{3}{4} \times 7$	2 $\frac{3}{4}$	200	34
4	2 $\frac{9}{16}$	1 $\frac{9}{32}$	6	$\frac{3}{4} \times 7$	3 $\frac{3}{4}$	130	43
5	3 $\frac{1}{4}$	1 $\frac{5}{8}$	7	1 x 8	6	100	76
6	3 $\frac{1}{4}$	1 $\frac{5}{8}$	7	1 x 8	7	80	86
8	4	1 $\frac{3}{4}$	7	1 x 8	11 $\frac{1}{2}$	48	124

Supplied in bulk, or packed one pair in a box with screws.

Finishes: Bright Steel, Hot Galvanized, Steel Pin, and Hot Galvanized, Brass Pin.

EXTRA HEAVY TEE HINGE
Wrought Steel
No. 708



Length Inches	Length of Joint Inches	Width of Strap at Joint Inches	Number of Screws	Size of Screws	Weight per Dozen Pairs Pounds	Number of Dozen Pairs in Barrel	No. 708 Scs. Weight per Hundred Pairs with Screws Pounds
4	3 $\frac{1}{2}$	1 $\frac{3}{4}$	6	1 x 8	9 $\frac{1}{4}$	65	97
5	4	2	8	1 x 10	12 $\frac{1}{2}$	50	142
6	4 $\frac{1}{2}$	2 $\frac{1}{4}$	8	1 $\frac{1}{4}$ x 11	19	32	195
8	5 $\frac{1}{2}$	2 $\frac{3}{4}$	9	1 $\frac{1}{4}$ x 12	33	21	318
10	6 $\frac{1}{2}$	3 $\frac{1}{4}$	9	1 $\frac{1}{2}$ x 14	49	12	480
12	7 $\frac{1}{2}$	3 $\frac{3}{4}$	10	1 $\frac{3}{4}$ x 16	76	7 $\frac{1}{2}$	730
14	7 $\frac{1}{2}$	3 $\frac{3}{4}$	10	1 $\frac{3}{4}$ x 16	85	6	790

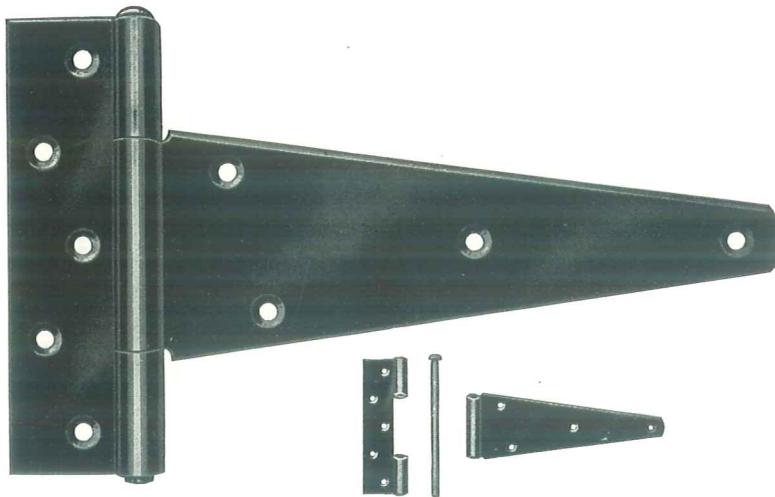
Supplied in bulk, or packed one pair in a box with screws.

Finishes: Bright Steel, Hot Galvanized, Steel Pin, and Hot Galvanized, Brass Pin.

EXTRA HEAVY TEE HINGE

Loose Pin Wrought Steel Reversible

No. 763 SCS.



Length of Strap Inches	Number of Screws	Size of Screws	Weight per Hundred Pairs with Screws Pounds
8	9	1 1/4 x 12	318
10	9	1 1/2 x 14	480
12	10	1 3/4 x 16	730
14	10	1 3/4 x 16	790

Made in four sizes.

For frame, brick, concrete or steel construction.

May be used as full surface hinge or may be mortised by removing pin and reversing pad. Pin is of sufficient length for riveting if desired.

Finishes: Bright Steel, Japanned and Galvanized.

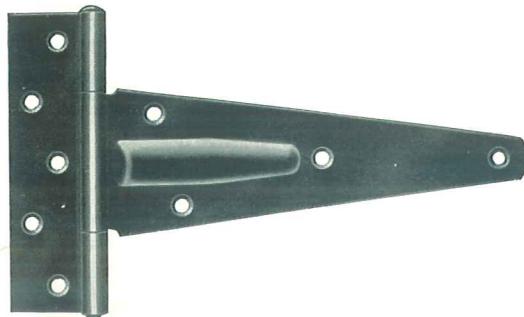
Packed one pair in a box with screws.

GARAGE HINGE

Loose Pin

Wrought Steel

Reversible

No. 76

For frame, masonry or steel construction.

Leaf is embossed for added strength and beauty. Loose pin of sufficient length for riveting if desired. May be used full surface or with frame mortised.

Finishes: Japanned and Dead Black Japanned.

Packed one pair in a box with screws.

Weight, per pair, 8-inch, $3\frac{1}{4}$ pounds.

10-inch, $4\frac{3}{4}$ pounds.

12-inch, $7\frac{1}{4}$ pounds.

14-inch, $7\frac{3}{4}$ pounds.

GARAGE HINGE

Loose Pin

Wrought Steel

Reversible

No. 176

For frame, masonry or steel construction.

Leaf is drilled and countersunk for carriage bolts or wood screws.

Finishes: Japanned and Dead Black Japanned.

Packed one pair in a box with screws.

Weight, per pair, 10-inch, $5\frac{1}{2}$ pounds.

14-inch, $6\frac{1}{4}$ pounds.

18-inch, $7\frac{1}{4}$ pounds.

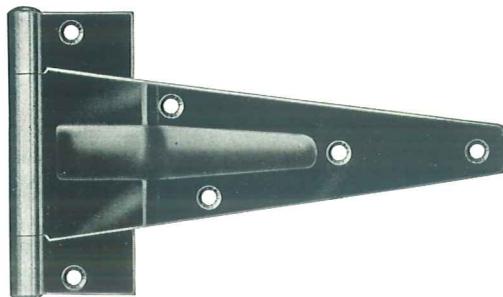
GARAGE HINGE

Tight Pin

Wrought Steel

Offset

No. 67



For frame construction.

This special hinge allows the door to swing entirely clear of the opening. Extra heavy and embossed for additional strength and beauty.

Finishes: Japanned and Dead Black Japanned.

Packed one pair in a box with screws.

Weight, per pair, 8-inch, $3\frac{1}{4}$ pounds.

10-inch, $4\frac{3}{4}$ pounds.

12-inch, $7\frac{1}{4}$ pounds.

14-inch, $7\frac{3}{4}$ pounds.

GARAGE HINGE

Tight Pin

Wrought Steel

Offset

No. 167



For frame construction.

A low-priced, extra heavy hinge for medium weight doors. Offset to permit doors to swing clear of the opening.

Finishes: Japanned and Dead Black Japanned.

Packed one pair in a box with screws.

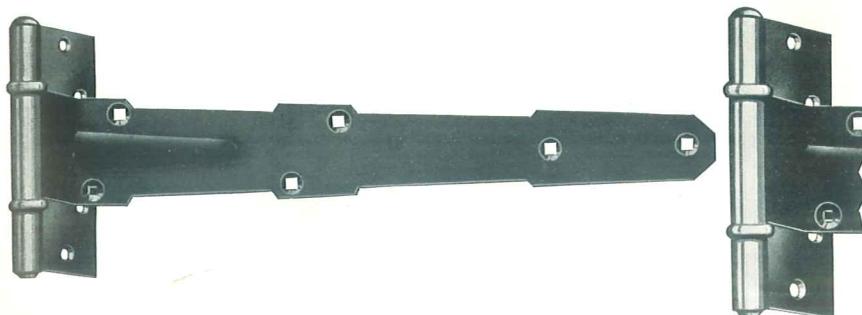
Weight, per pair, 14-inch, $6\frac{1}{4}$ pounds.

18-inch, $7\frac{1}{4}$ pounds.

ORNAMENTAL GARAGE HINGE

Wrought Steel

No. 760



Made in two sizes, 10-inch and 24-inch. Offset, $1\frac{1}{8}$ inches. Mortise frame. Beautifully designed.

Bronze bearings and brass pin tips prevent hinge from rusting tight. Extra long straps give great support to the door.

Offset allows door to swing back entirely clear of opening. Drilled and countersunk for either carriage bolts or screws.

Finishes: Japanned and Dead Black Japanned.

Packed one pair in a carton with screws.

If desired, may be packed with carriage bolt (state door thickness).

Weight, per pair, 10-inch, $7\frac{1}{2}$ pounds.

24-inch, $11\frac{1}{4}$ pounds.

ORNAMENTAL GARAGE HINGE

Wrought Steel

No. 670



Made in two sizes, 12-inch and 24-inch. Full surface.

Identical in design and material to the No. 760 shown above, but for use as a full surface hinge. Applied as per illustration. The offset feature allows the door to swing back entirely clear of the opening.

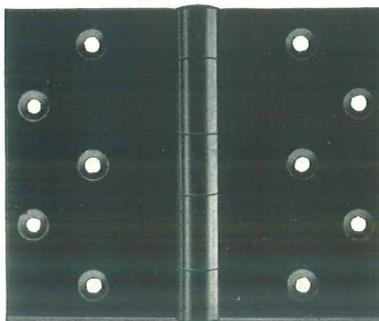
Finishes: Japanned and Dead Black Japanned.

Packed one pair in a carton with screws.

May be had with carriage bolts, if desired (state door thickness).

Weight, per pair, 12-inch, $8\frac{1}{4}$ pounds.

24-inch, $11\frac{1}{4}$ pounds.

FLAT BACK BUTT**Wrought Steel****No. 63**

Made in one size only, $4\frac{1}{2}$ x $5\frac{1}{2}$ inches.

An excellent, extra heavy surface hinge for garage and other heavy doors. Wide leaves give extra support to the doors. Drilled and countersunk for No. 11 Flat Head Screws.

Finish: Japanned.

Packed three pairs in a box with screws.

Weight, per dozen pairs, 29 pounds.

OFFSET STRAP HINGE**Wrought Steel****No. 77**

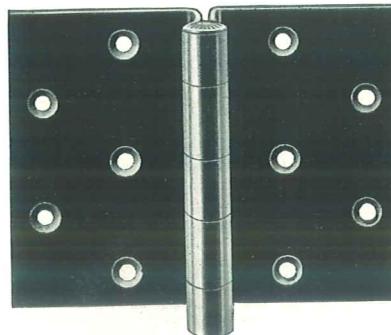
Made in 10-inch size only.

For use on accordian type doors. The 1-inch offset allows doors to fold completely with plenty of clearance for bolts, latches, etc. Full surface application.

Finish: Japanned.

Packed one pair in a box with screws.

Weight, per pair, $4\frac{3}{4}$ pounds.

OFFSET BUTT**Wrought Steel****No. 65**

Size, $4\frac{1}{2}$ x $5\frac{1}{2}$ inches.

Designed for use on sliding-folding doors. The $1\frac{1}{8}$ -inch offset allows doors to fold snugly together without interference from the chain and foot bolts.

Finish: Japanned.

Packed one pair in a box with screws.

Weight, per dozen pairs, 33 pounds.

OFFSET BUTT**Wrought Steel****No. 66**

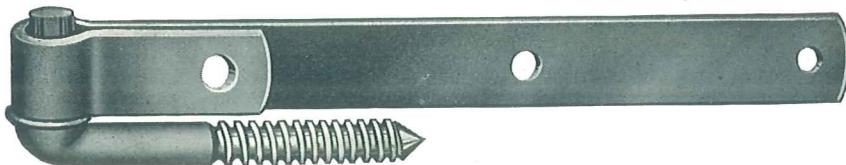
Same as No. 65 above, but with 2-inch offset. Size, $4\frac{1}{2}$ x $5\frac{1}{2}$ inches. Doors will fold clear of all hardware.

Finish: Japanned.

Packed one pair in a box with screws.

Weight, per dozen pairs, 48 pounds.

SCREW HOOK AND STRAP HINGE
Wrought Steel
No. 701



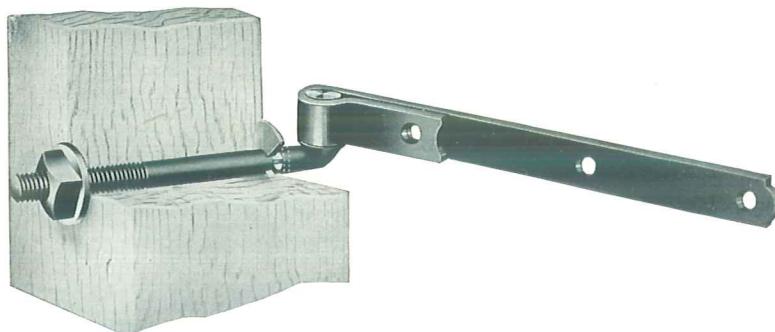
Length of Strap Inches	Size of Screw Hook	Number of Bolt Holes per Hinge	Size of Bolt Holes Inches	Weight per Dozen Pairs Pounds
6	1/2 x 4	2	5/16	21 1/2
8	1/2 x 4	2	5/16	25
10	5/8 x 5	3	5/16	43 1/2
12	5/8 x 5	3	5/16	47
14	3/4 x 6	3	3/8	72
16	3/4 x 6	3	3/8	76
18	3/4 x 6	4	3/8	90
20	3/4 x 6	4	3/8	97
22	7/8 x 8	4	3/8	133
24	7/8 x 8	4	3/8	142
30	7/8 x 8	5	3/8	165
36	7/8 x 8	5	3/8	190

Screw hook of extra heavy material. Has wide supporting knuckle and cleanly cut threads.

Finish: Bright Steel.

Tied one pair in a bundle.

BOLT HOOK AND STRAP HINGE
Wrought Steel
No. 703



Size Inches	Size of Bolt Hook	Number of Bolt Holes per Hinge	Size of Bolt Holes Inches	Weight per Dozen Pairs Pounds
6	$\frac{1}{2} \times 6$	2	$\frac{5}{16}$	27 $\frac{1}{2}$
8	$\frac{1}{2} \times 6$	2	$\frac{5}{16}$	30
10	$\frac{5}{8} \times 8$	3	$\frac{5}{16}$	55
12	$\frac{5}{8} \times 8$	3	$\frac{5}{16}$	65
14	$\frac{3}{4} \times 10$	3	$\frac{3}{8}$	92
16	$\frac{3}{4} \times 10$	3	$\frac{3}{8}$	96
18	$\frac{3}{4} \times 10$	4	$\frac{3}{8}$	112
20	$\frac{3}{4} \times 10$	4	$\frac{3}{8}$	119
22	$\frac{7}{8} \times 10$	4	$\frac{3}{8}$	156
24	$\frac{7}{8} \times 10$	4	$\frac{3}{8}$	165
30	$\frac{7}{8} \times 10$	5	$\frac{3}{8}$	185

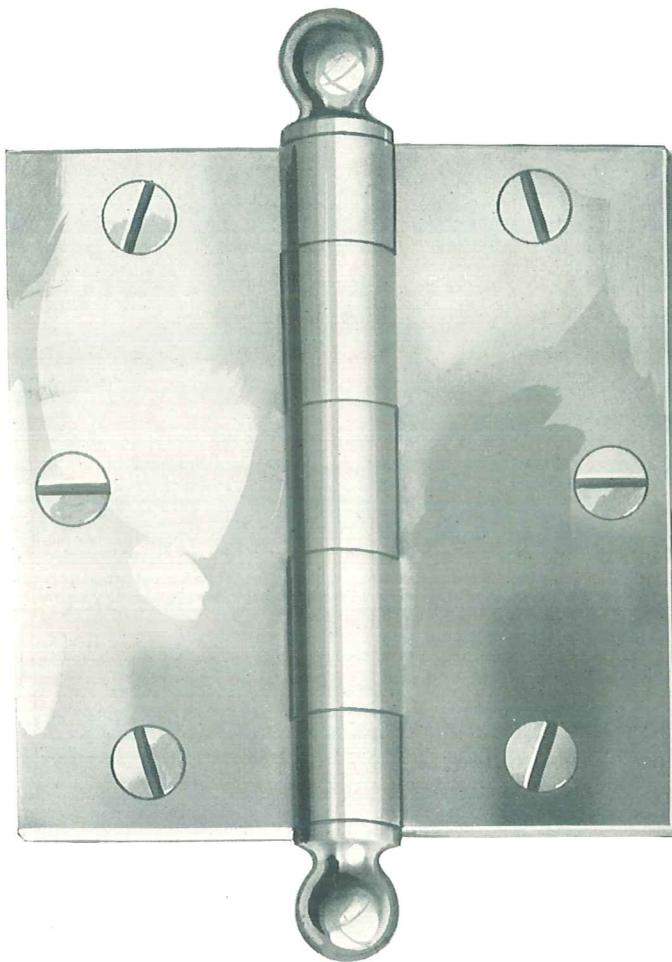
Bolts are threaded full 3-inches from the end.

Lugs on the bolt hook engage washer, keeping hinge joints in line. Supplied with square nut and two heavy washers.

Finish: Bright Steel.

Tied one pair in a bundle.

BALL TIP BUTT
Full Mortise No. 441 Wrought Steel



Size Open Inches	Number Pairs in Carton	Number Pairs per Case	Weight per Case Pounds
2 x 2	6	102	41
2½ x 2½	3	102	64
3 x 3	1	50	45
3½ x 3½	1	50	67
4 x 4	1	50	92
4½ x 4½	1	50	115
5 x 5	1	50	150

Furnished in all standard plated finishes; for list, see page 175.
The 2½ x 2½" size and larger have five knuckles; smaller sizes, three.
Smaller sizes packed one pair in an envelope with screws; larger sizes, each butt wrapped separately with screws.

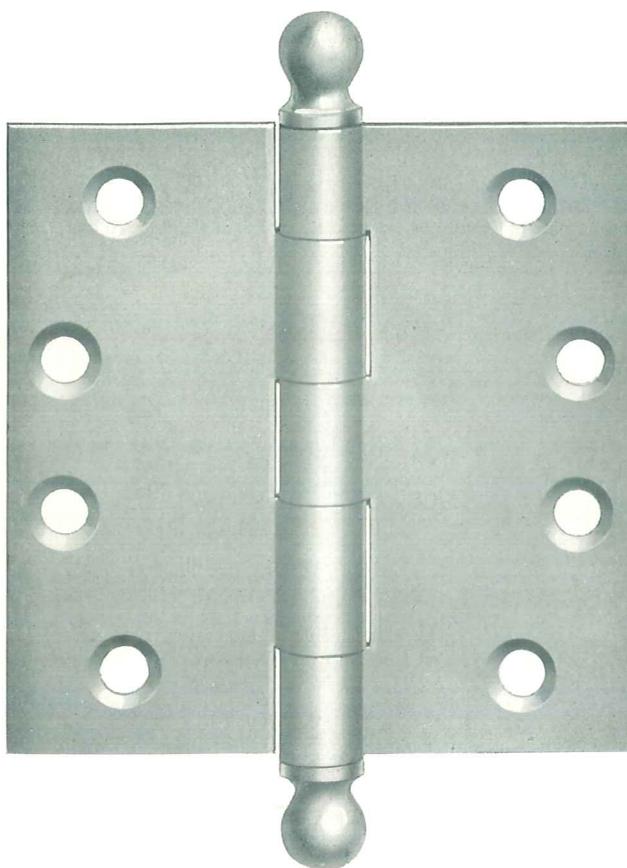
No. 440. Same as No. 441 above, but with Button Tip Pin.

TEMPLATE BUTT

Wrought Steel

No. 379

Loose Pin



Size Open Inches	Size of Machine Screws	Number of Screw Holes	Number of Pairs per Case	Weight per Case Pounds
2½ x 2½	½ x 10—24	6	102	64
3 x 3	½ x 10—24	6	50	45
3½ x 3½	½ x 12—24	8	50	67
4 x 4	½ x 12—24	8	50	92
4½ x 4½	½ x 12—24	8	50	115
5 x 5	½ x 12—24	8	50	150

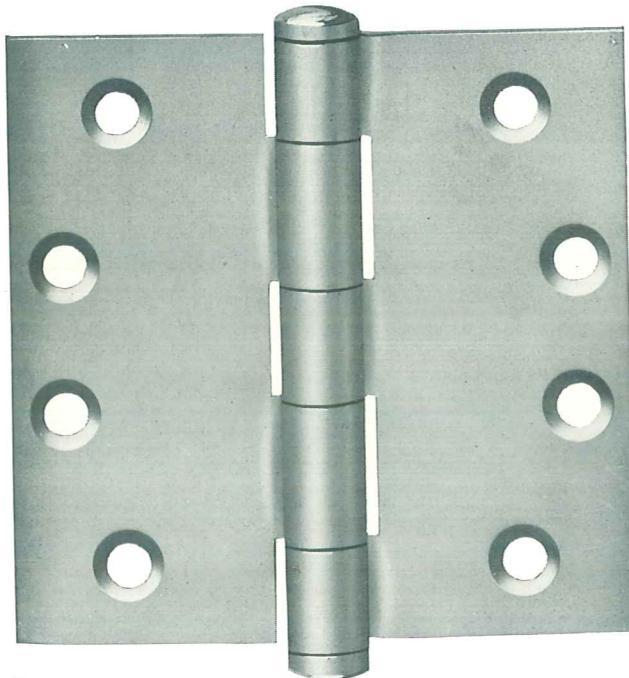
Made to specifications of U. S. Bureau of Standards.

For use on hollow metal doors or wood doors having metal jambs. Screw holes accurately located for Template Butts and will match screw holes in standard metal doors and jambs.

Furnished in all standard finishes; for list, see page 175.

Packed one pair in a box with machine screws.

TEMPLATE BUTTON TIP BUTT
Wrought Steel **Loose Pin**
No. 346



Size Open Inches	Size of Machine Screws	Number of Screw Holes	Number of Pairs per Case	Weight per Case Pounds
2½ x 2½	½ x 10—24	6	102	64
3 x 3	½ x 10—24	6	50	45
3½ x 3½	½ x 12—24	8	50	67
4 x 4	½ x 12—24	8	50	92
4½ x 4½	½ x 12—24	8	50	115
5 x 5	½ x 12—24	8	50	150

Made to specifications of U. S. Bureau of Standards.

Designed for use on hollow metal doors or wood doors having metal jambs where butts are to be finished to match the doors and trim.

Screw holes accurately located and will match holes in standard metal doors and jambs. Button head pin and tip fit flush with end of barrel.

Furnished in prime coat, also prime coat over Cadmium.

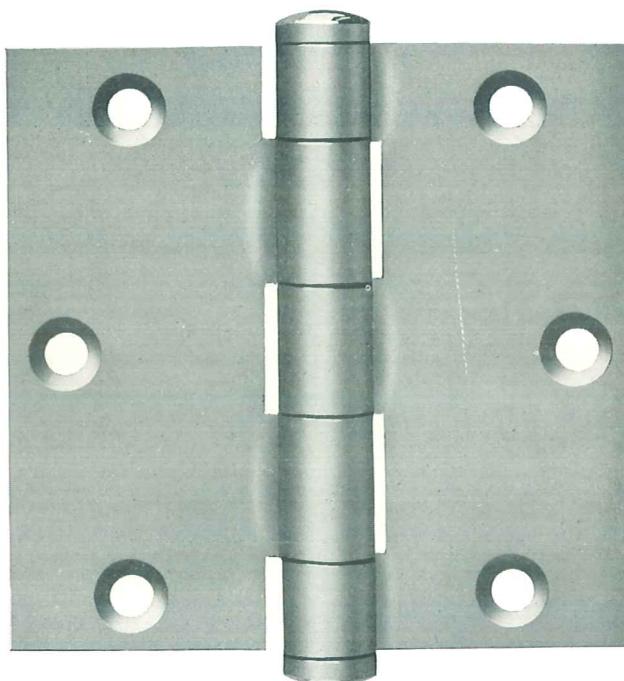
Packed one pair in a box with machine screws.

BUTTON TIP BUTT

Wrought Steel

Loose Pin

No. 442



Size Open Inches	Size of Screws	Number of Screws	Number of Pairs per Case	Weight per Case Pounds
2½ x 2½	¾ x 7	6	102	62
3 x 3	1 x 8	6	50	43
3½ x 3½	1 x 9	6	50	64
4 x 4	1 x 10	8	25	43
4½ x 4½	1¼ x 12	8	25	55
5 x 5	1¼ x 12	10	25	73

Perfect fitting joints with sufficient clearance between barrel and leaves to prevent paint from being scraped off barrel when door is operated. Button tips fit flush with ends of barrel.

Furnished in prime coat, and prime coat over Cadmium.

Packed one pair in a box with screws.

HALF SURFACE BUTT
Wrought Steel
No. 365



Length of Joint Inches	Number of Pairs in Carton	Number of Pairs in Case	Weight per Case Pounds
1½	3	102	33
2	3	102	42
2½	3	102	68
3	1	50	51
3½	1	50	78
4	1	25	52

Easily reversible by unscrewing slotted nib, reversing the pin and screwing nib into other end of barrel. Outer edges of door leaf beveled.

Furnished in all standard finishes; for list, see page 175.

Three smaller sizes packed one pair in an envelope with screws; larger sizes, each butt wrapped separately with screws.

HALF SURFACE BUTT**Wrought Steel****Embossed****No. 360**

Length of Joint Inches	Number of Pairs in Carton	Number of Pairs in Case	Weight per Case Pounds
1½	3	102	33
2	3	102	42
2½	3	102	68
3	1	50	51
3½	1	50	78
4	1	25	52

Butt is reversible by removing slotted nib, reversing pin and screwing nib into other end of barrel.

Furnished in all standard finishes; for list, see page 175.

Three smaller sizes packed one pair in an envelope with screws; larger sizes, each butt wrapped separately with screws.

REVERSIBLE BROAD BUTT
Wrought Steel **Loose Pin**
No. 904



Size Open Inches	Number Pairs in Carton without Screws	Weight Dozen Pairs without Screws Pounds	Number Pairs in Carton with Screws	No. 904 Scs. Weight Dozen Pairs with Screws Pounds
2 x 2	12	3 1/4	12	3 3/4
2 1/2 x 2 1/2	12	6	3	7
3 x 3	12	9 1/4	1	10 1/4
3 1/2 x 3 1/2	6	14	1	15 1/4
4 x 4	6	19	1	20 1/2

Sizes $2\frac{1}{2} \times 2\frac{1}{2}$ " and larger have five knuckles; the 2×2 ", three knuckles.

Finishes: Bright Steel, Cadmium and Hot Galvanized, Brass Pin.

Packed either with or without screws.

BROAD BUTT
Wrought Steel **Tight Pin**
No. 908



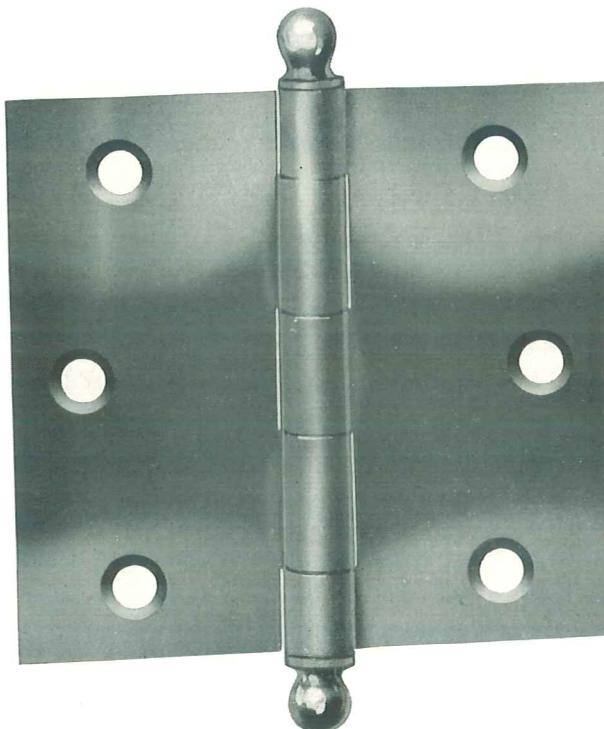
Size Open Inches	Number Pairs in Carton without Screws	Weight Dozen Pairs without Screws Pounds	Number Pairs in Carton with Screws	No. 908 Scs. Weight Dozen Pairs with Screws Pounds
2 x 2	12	3 1/2	12	3 3/4
2 1/2 x 2 1/2	12	6	3	7
3 x 3	12	9 1/4	1	10 1/4
3 1/2 x 3 1/2	6	14	1	15 1/4
4 x 4	6	19	1	20 1/2

Sizes $2\frac{1}{2} \times 2\frac{1}{2}$ " and larger have five knuckles; the 2×2 " size, three knuckles.

Finishes: Bright Steel, Japanned, Cadmium, and Hot Galvanized, Brass Pin.

Packed either with or without screws.

LIGHT BALL TIP BUTT
Wrought Steel **Loose Pin**
No. 389



Size Open Inches	Weight Dozen Pairs Pounds
2 x 2	3
2½ x 2	3½
2½ x 2½	4½
3 x 3	6½

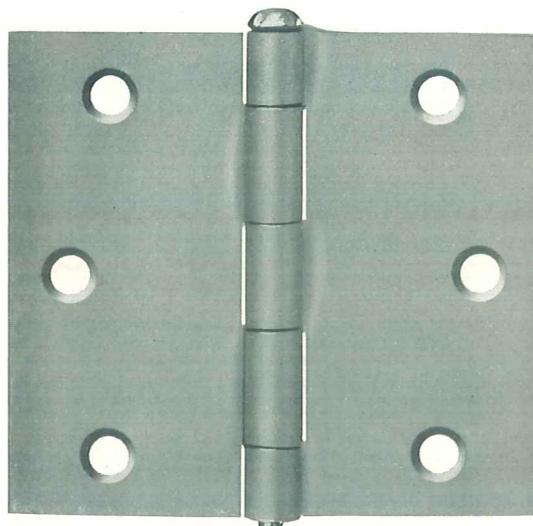
Size 2 x 2" has three knuckles; all larger sizes have five knuckles.

Furnished in all standard finishes; for list, see page 175.

Packed one pair in an envelope with screws, six pairs in a carton.

No. 390. Same as above except Button Tip Pins are used.

LIGHT REVERSIBLE BUTT
Wrought Steel **Loose Pin**
No. 934

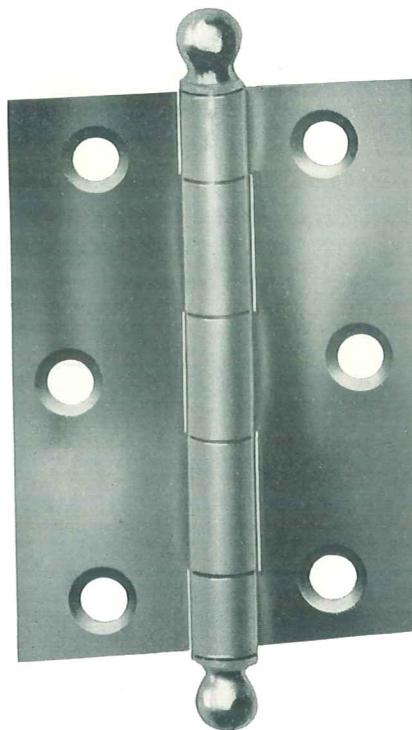


Size Open Inches	Weight Dozen Pairs without Screws	No. 934 Scs. Weight Dozen Pairs with Screws
2 x 2	2 $\frac{1}{4}$	2 $\frac{3}{4}$
2 $\frac{1}{2}$ x 2	2 $\frac{3}{4}$	3 $\frac{1}{4}$
2 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3 $\frac{1}{2}$	4
3 x 3	5 $\frac{1}{2}$	6

Furnished in Bright Steel, Japanned and all standard finishes; for list, see page 175.

Bright Steel butts supplied with or without screws. All other finishes packed one pair in an envelope with screws, one dozen pairs in a carton.

LIGHT NARROW BUTT
Wrought Steel **Loose Pin**
No. 395



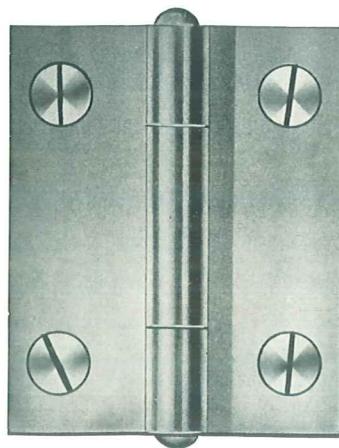
Length of Joint Inches	Width Open Inches	Number of Screw Holes	Weight per Dozen Pairs Pounds
1½	1 7/16	4	1 1/2
2	1 9/16	4	2 1/2
2½	1 11/16	6	3 1/4
3	2	6	5

The 2½-inch and 3-inch sizes have five knuckles; smaller sizes, three.

Furnished in Japanned and all standard finishes; for list, see page 175.

All sizes packed one pair in an envelope with screws, one dozen pairs in a carton.

LIGHT NARROW BUTT
Wrought Steel **Tight Pin**
No. 938



Length of Joint Inches	Width Open Inches	Number of Screw Holes	Weight Dozen Pairs without Screws Pounds	No. 938 Scs. Weight Dozen Pairs with Screws Pounds
1	1	4	1½	¾
1½	1 7/16	4	1	1 1/4
2	1 9/16	4	2	2 1/4
2½	1 11/16	6	2 ¾	3
3	2	6	4	4 1/4

The 2½-inch and 3-inch sizes have five knuckles; smaller sizes, three.

Furnished in Bright Steel, Japanned and all standard finishes; for list, see page 175.

Bright Steel packed one dozen pairs in a carton with or without screws. All other finishes packed one pair in an envelope with screws, one dozen in a carton.

LIGHT NARROW BUTT
Wrought Steel
No. 940

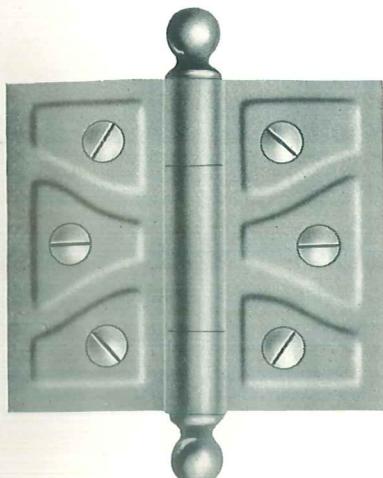


Length of Joint Inches	Width Open Inches	Number of Screw Holes	Weight Dozen Pairs without Screws Pounds	No. 940 Scs. Weight Dozen Pairs with Screws Pounds
1	1	4	$\frac{1}{2}$	$\frac{3}{4}$
$1\frac{1}{2}$	$1\frac{7}{16}$	4	1	$1\frac{1}{4}$
2	$1\frac{9}{16}$	4	2	$2\frac{1}{4}$
$2\frac{1}{2}$	$1\frac{11}{16}$	6	$2\frac{3}{4}$	3
3	2	6	4	$4\frac{1}{4}$

The $2\frac{1}{2}$ -inch and 3-inch sizes have five knuckles; smaller sizes, three.

Furnished in Bright Steel, Japanned and all standard finishes; for list, see page 175.

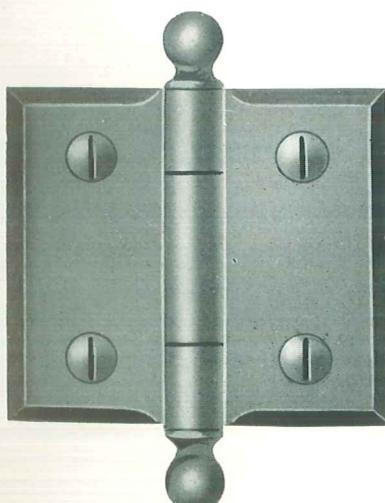
Bright Steel packed one dozen pairs in a carton with or without screws. All other finishes packed one pair in an envelope with screws, one dozen pairs in a carton.

SURFACE HINGE**Wrought Steel****No. 380**

Embossed design to match the No. 360 Half Surface Butt. Made in two sizes. Supplied with oval head screws. Furnished in all standard finishes; for list, see page 175.

Packed one pair in an envelope with screws, one dozen pairs in a carton.

Length of Joint Inches	Kind of Pin	Number of Pairs in Carton	Weight per Dozen Pairs Pounds
1½ 2	Oval Head Ball Tip	12 12	2¼ 5¼

SURFACE HINGE**Wrought Steel****No. 366**

Beveled edges to match the No. 365 Half Surface Butt. Made in two sizes.

Furnished in all standard finishes; for list, see page 175.

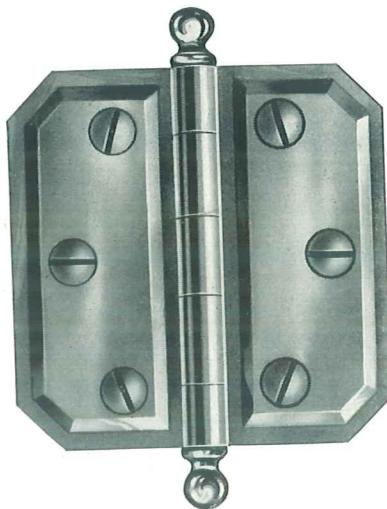
Packed one pair in an envelope with screws.

Length of Joint Inches	Kind of Pin	Number of Pairs in Carton	Weight per Dozen Pairs Pounds
1½ 2	Oval Head Ball Tip	6 3	2 4¾

ORNAMENTAL HINGE

Wrought Steel

No. 469



Actual Size

Full Surface.

Made in size 2 x 2" only. Embossed panels with beveled edges add greatly to their beauty. Ball tip pin and nib.

Furnished in all standard plated finishes; for list, see page 175.

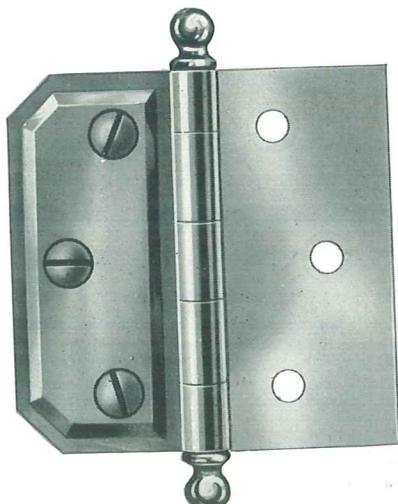
Packed one pair in an envelope with oval head screws, one dozen pairs in a carton.

Weight, per dozen pairs, 2 $\frac{1}{4}$ pounds.

ORNAMENTAL HINGE

Wrought Steel

No. 469 $\frac{1}{2}$



Actual Size

Same as No. 469 but for half surface application. Made in 2-inch size only.

Furnished in all standard plated finishes; for list, see page 175.

Packed with oval head screws for flush leaf, flat head screws for mortise leaf.

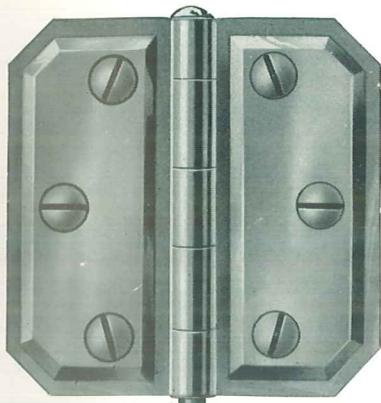
Packed one pair in an envelope with screws, one dozen pairs in a carton.

Weight, per dozen pairs, 2 pounds.

ORNAMENTAL HINGE

Wrought Steel

No. 471



Actual Size

Full Surface.

Same as the No. 469 Hinge except that it is supplied with oval head pin. Made in 2 x 2" size only.

Furnished in all standard plated finishes; for list, see page 175.

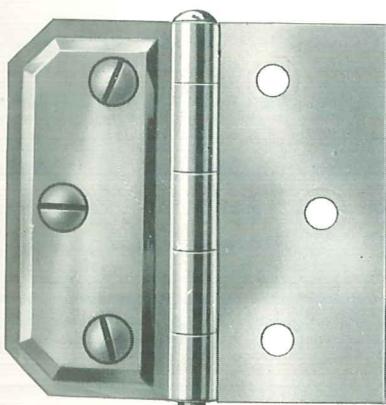
Packed one pair in an envelope with oval head screws, one dozen pairs in a carton.

Weight, per dozen pairs, $2\frac{1}{4}$ pounds.

ORNAMENTAL HINGE

Wrought Steel

No. 471 $\frac{1}{2}$



For half surface application. Oval head pin. Made in 2-inch size only.

Furnished in all standard plated finishes; for list, see page 175.

Packed with oval head screws for flush leaf, flat head screws for mortise leaf.

Packed one pair in an envelope with screws, one dozen pairs in a carton.

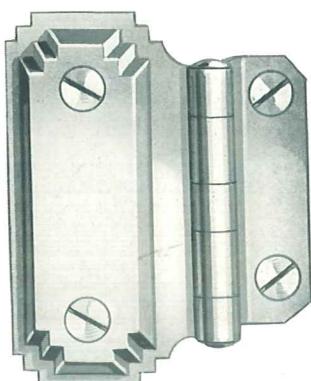
Weight, per dozen pairs, 2 pounds.

Actual Size

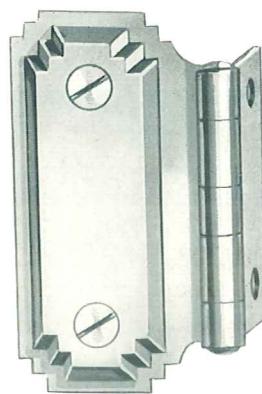
ORNAMENTAL CABINET HINGES

Wrought Steel

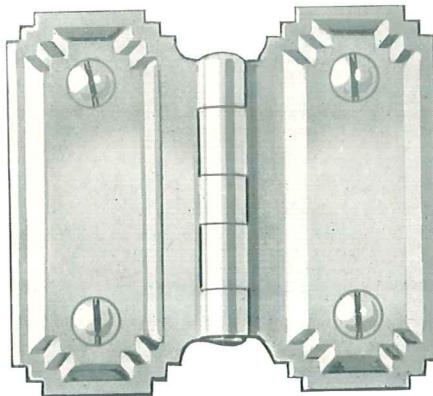
Patented



No. 472 Offset



No. 473 Half Surface



No. 474 Full Surface

Modernistic design, embossed panels and beautiful finish add greatly to the appearance of the doors to which they are applied.

No. 472 has $\frac{3}{8}$ -inch offset. No. 473 and No. 474 are for flush doors.

Furnished in all standard plated finishes; for list, see page 175.

Packed one pair in an envelope with screws, one dozen pairs in a carton.

Weight, per dozen pairs, No. 472, 2 pounds.

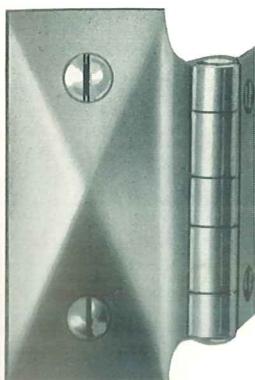
No. 473, 2 pounds.

No. 474, $2\frac{1}{4}$ pounds.

ORNAMENTAL CABINET HINGES

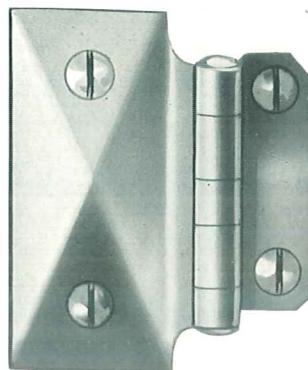
Wrought Steel

Patented

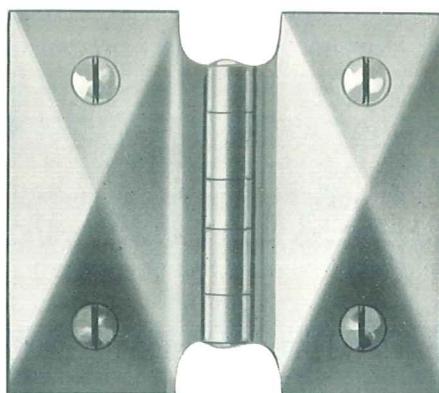


Cuts
Actual
Size

No. 483
Half Surface



No. 482
3/8-inch Offset



No. 484
Full Surface

Suitable for all types of cabinet, cupboard and other small doors.

Beautiful modern design.

Furnished in all standard plated finishes; for list, see page 175.

Packed one pair in an envelope with oval head screws, one dozen pairs in a carton.

Weight, per dozen pairs, No. 482, 1 $\frac{3}{4}$ pounds.

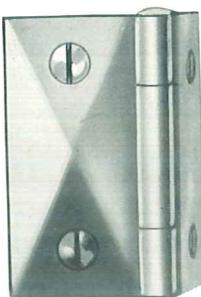
No. 483, 1 $\frac{3}{4}$ pounds.

No. 484, 2 $\frac{1}{4}$ pounds.

ORNAMENTAL CABINET HINGES

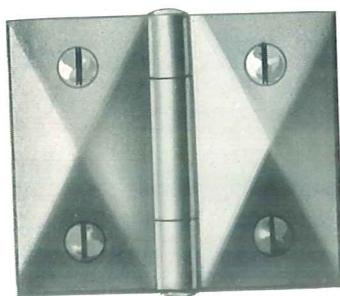
Wrought Steel

Patented



No. 493
Half Surface

Cuts
Actual
Size



No. 494
Full Surface

Designed for use with all types of cupboards and cabinets having flush doors.

Plain, smooth edges, beautifully embossed in modern design. Recommended for use with the No. 332 Cupboard Catch and No. 734 Friction Catch of similar design.

Supplied in half surface and full surface styles.

Furnished in all standard plated finishes; for list, see page 175.

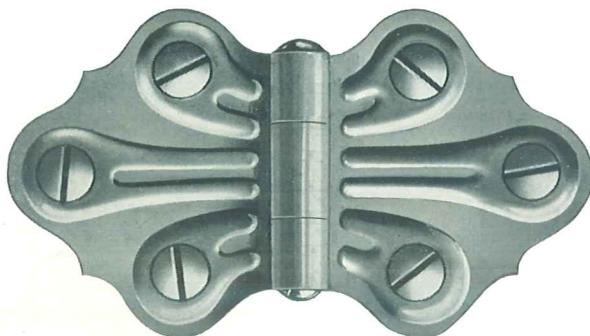
Packed one pair in an envelope with oval head screws, one dozen pairs in a carton.

Weight, per dozen pairs, No. 493, 2 pounds.
No. 494, 2 pounds.

CLOVERLEAF HINGE

Wrought Steel

No. 174



Actual Size

Tight Pin.

Furnished in all standard plated finishes; for list, see page 175.

Packed one pair in an envelope with oval head screws, one dozen pairs in a carton.

Weight, per dozen pairs, 2 pounds.

BUTTERFLY HINGE

Wrought Steel

No. 154



Actual Size

Made in 1 x 3" size only. Tight Pin.

Furnished in all standard plated finishes; for list, see page 175.

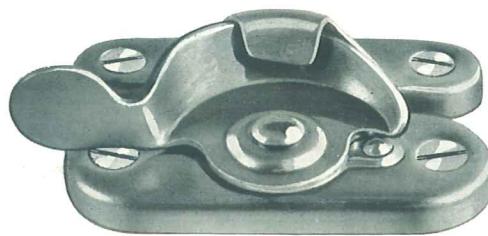
Packed one pair in an envelope with screws, one dozen pairs in a carton.

Weight, per dozen pairs, 1½ pounds.

SASH LOCK

Wrought Steel

No. 320



Furnished in all standard plated finishes; for list, see page 175.

Packed one complete lock with screws in a package, one dozen in a carton, one gross in a case.

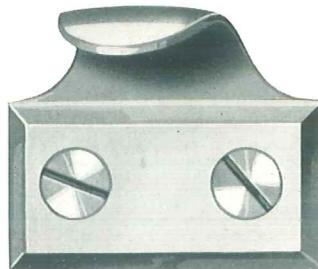
Weight, per dozen, $1\frac{3}{4}$ pounds.

Weight, per case, 24 pounds.

BEVELED SASH LIFT

Wrought Steel

No. 310



Well formed with nicely beveled edges.

Furnished in all standard plated finishes; for list, see page 175.

Packed one-quarter gross with screws in a carton.

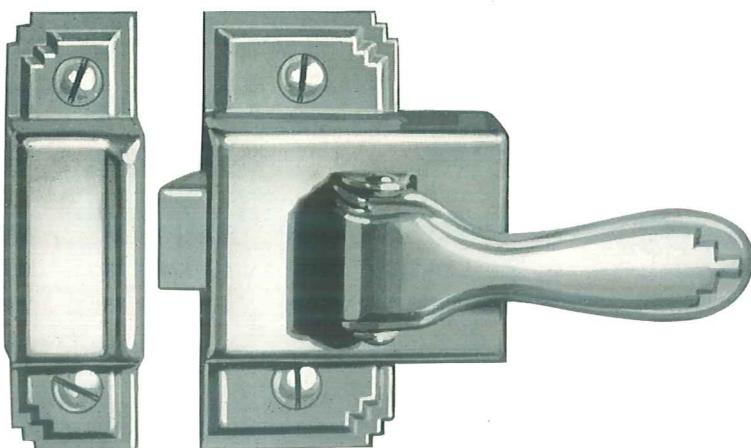
Weight, per gross, $5\frac{1}{2}$ pounds.

CUPBOARD CATCHES

Wrought Steel

No. 306

Patented



Cut Full Size

For doors having $\frac{3}{8}$ -inch offset.

An entirely new idea in the design and construction of cabinet catches. Action is easy, smooth and positive. Sturdy and of simple construction. Nothing to get out of order.

Furnished in all standard plated finishes; for list, see page 175.

Each catch is wrapped complete with screws.

Packed one in an envelope with screws and strikes, one dozen in a carton.

Weight, per dozen, $2\frac{1}{4}$ pounds.

No. 306-B. Same as above in Solid Brass.

No. 307

For flush doors.

Identical in design, construction, finish and packing to the No. 306 Catch shown above, but designed for use on doors that fit flush with the face of the jamb.

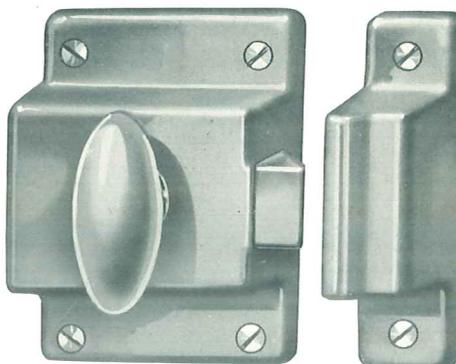
Weight, per dozen, $2\frac{1}{4}$ pounds.

No. 307-B. Same as above in Solid Brass.

CUPBOARD TURNS

Wrought Steel

No. 305



Substantial and durable. Smooth, positive action.

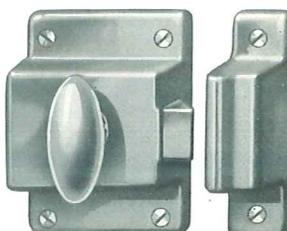
Furnished in all standard plated finishes; for list, see page 175.

Packed one dozen in a carton, one gross in a case. Each turn wrapped separately with strike and screws.

Weight, per dozen, $1\frac{1}{2}$ pounds.

Weight, per gross, 20 pounds.

No. 304



The No. 304 Turn is similar in design, material, construction, finish and packaging to the No. 305 shown above, but is smaller and lighter.

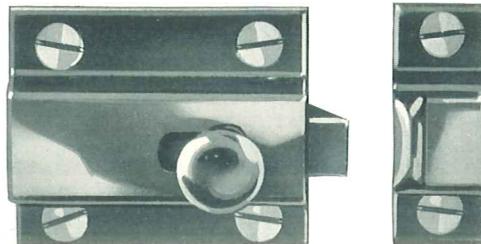
Weight, per dozen, $1\frac{1}{4}$ pounds.

Weight, per gross, 17 pounds.

CUPBOARD CATCHES

Wrought Steel

No. 270



Actual Size

Has a smooth, positive action.

Furnished in all standard finishes; for list, see page 175.

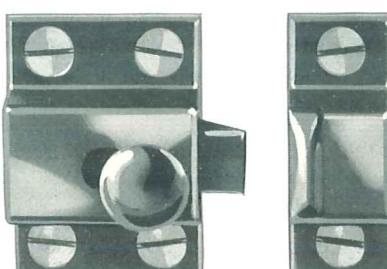
Each catch wrapped separately with strike and screws.

One dozen in a carton, one gross in a case.

Weight, per dozen, 1 pound.

Weight, per gross, 14 pounds.

No. 260



Actual Size

Case is short for application on narrow frames.

Furnished in all standard finishes; for list, see page 175.

Each catch wrapped separately with strike and screws.

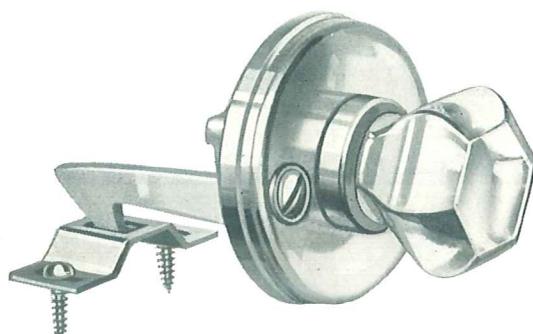
One dozen in a carton, one gross in a case.

Weight, per dozen, 1 pound.

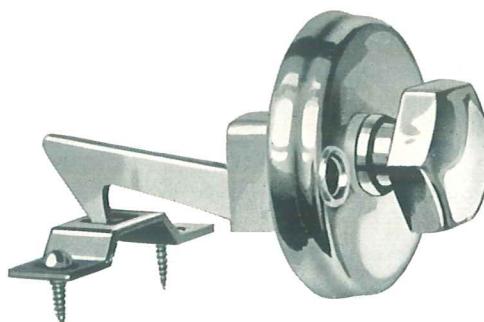
Weight, per gross, 14 pounds.

CUPBOARD CATCHES

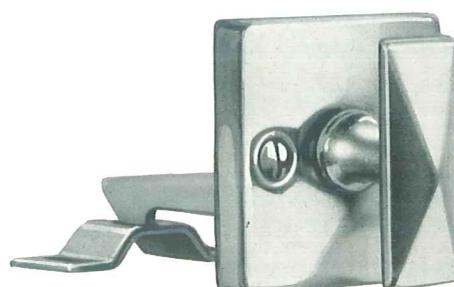
Patented



No. 330



No. 328



No. 332

No. 330

Has clear glass knob $\frac{7}{8}$ -inch in diameter. All exposed metal parts are solid brass, other parts finished in Cadmium.

Easily and quickly installed by boring one hole and setting four screws. Strike has slotted screw holes to simplify installation and to compensate for sagging or warping of door. Strike may be applied to top or bottom of shelf or to side. A slight turn of the knob either to the left or right releases the catch. When the door is pushed shut the catch engages automatically. May be used on doors from $\frac{1}{2}$ -inch to $1\frac{1}{8}$ -inches in thickness. Case is $1\frac{1}{2}$ -inches in diameter.

Furnished in all standard finishes; for list, see page 175.

Packed one dozen in a carton, one gross in a case. Each catch in an envelope with screws, parts and instructions.

Weight, per dozen, 2 pounds.

No. 328

Identical in size, application and operation to the No. 330, except that the hexagon knob is made of solid brass.

Supplied in all standard finishes.

Packed one in an envelope with parts, screws and instructions, one dozen in a carton.

Weight, per dozen, 2 pounds.

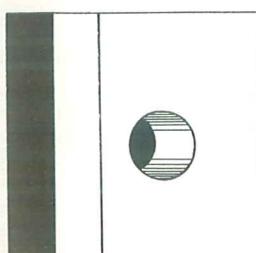
No. 332

Square steel case with brass handle, beautifully embossed in modern design. Matches Hinges Nos. 482, 483, 484, 493, 494. Application and operation same as No. 330 and 328 described above.

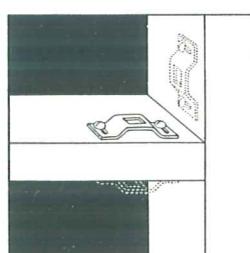
Supplied in all standard finishes.

Packed one in an envelope with parts, screws and instructions, one dozen in a carton.

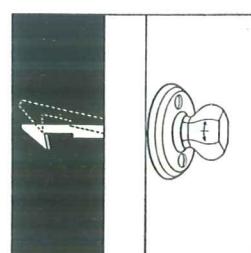
Weight, per dozen, 2 pounds.



To install, bore one hole, set four screws. No mortising or chiseling required.



Catch may be applied in any of the positions shown above.



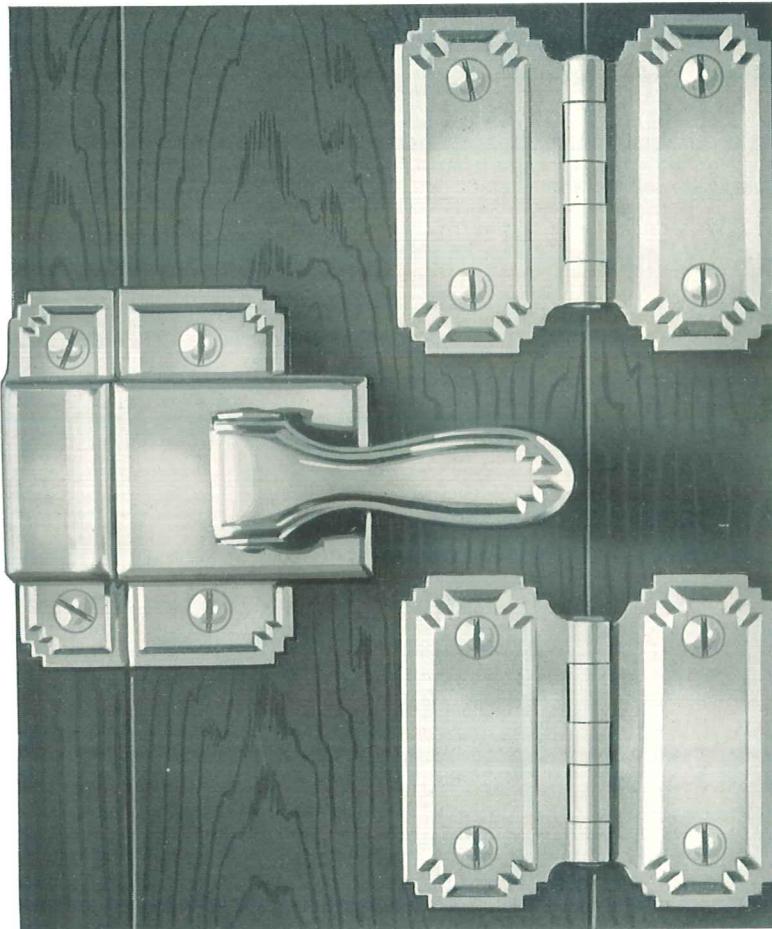
A slight turn either way releases strike. Fastens automatically when door is closed.

CABINET SET

Wrought Steel

No. 752

Patented



For use with full flush doors.

Set consists of one pair No. 474 Full Surface Hinges and one No. 307 Flush Catch.
Furnished in all standard finishes; for list, see page 175.

Each set packed with screws in an envelope, one dozen sets in a carton.

Weight, per dozen sets, $4\frac{1}{4}$ pounds.

NO. 750 SET—Same as above except that No. 472 Offset Hinges and No. 306 Catch are supplied for offset doors.

Weight, per dozen sets, $3\frac{3}{4}$ pounds.

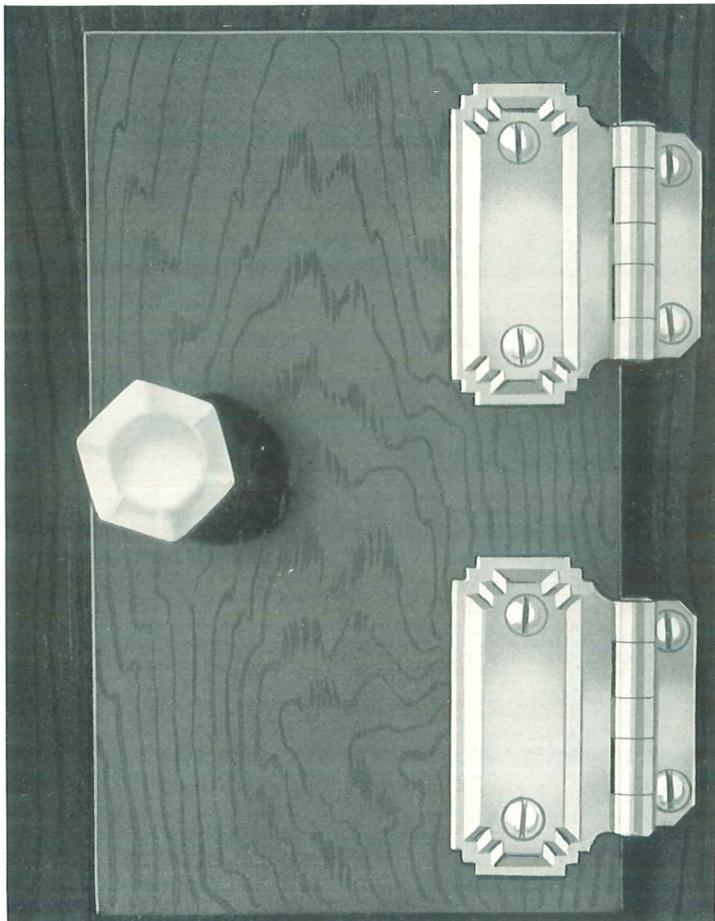
NO. 751 SET—Same as above except that No. 473 Half Surface Hinges and No. 307 Catch are supplied for flush doors.

Weight, per dozen sets, $3\frac{3}{4}$ pounds.

Above furnished in Solid Brass, Nos. 752-B, 750-B, 751-B.

CABINET SET**Wrought Steel****No. 754**

Patented



For offset or rabbeted doors.

Set consists of one pair No. 472 Hinges having $\frac{3}{8}$ -inch offset and one No. 726 Glass Knob Friction Catch.

Furnished in all standard finishes; for list, see page 175.

Each set packed in an envelope with screws, one dozen in a carton.

Weight, per dozen sets, $3\frac{1}{2}$ pounds.

NO. 755 SET—Same as above except that No. 473 Half Surface Hinges are supplied for flush doors.

Weight, per dozen sets, $3\frac{1}{2}$ pounds.

NO. 756 SET—Same as above except that No. 474 Full Surface Hinges are supplied for flush doors.

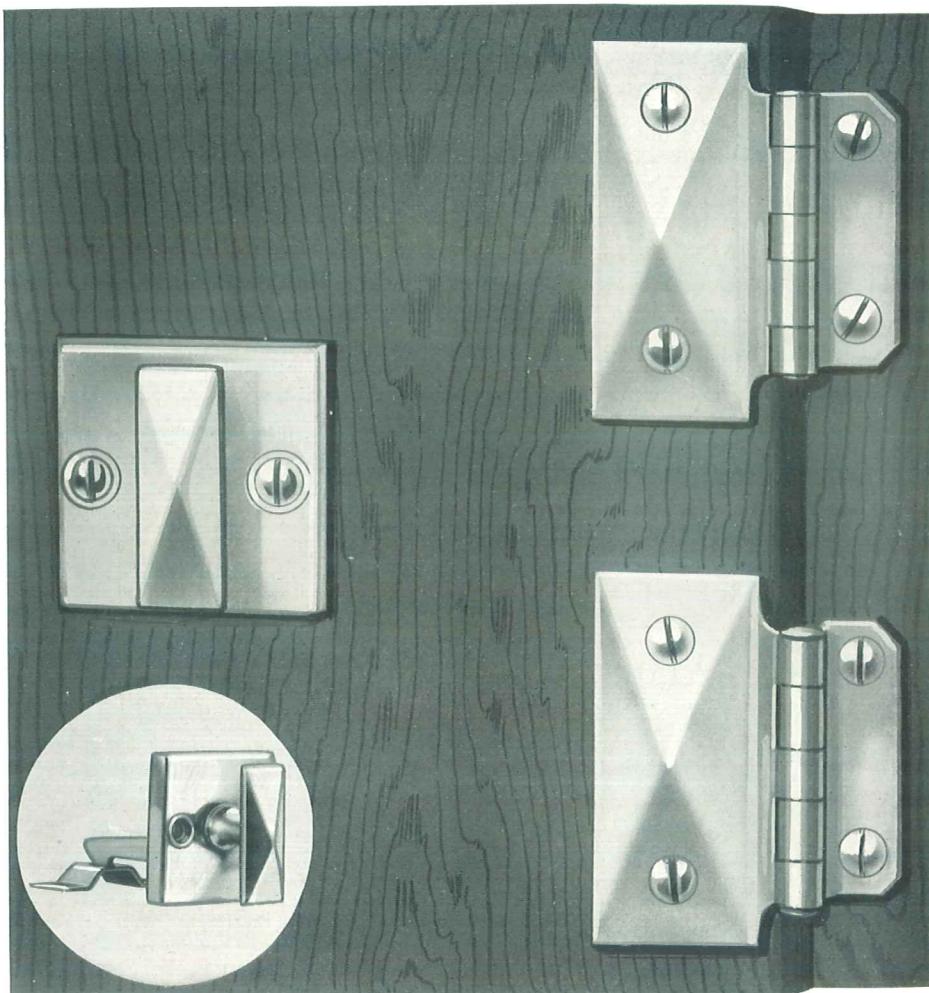
Weight, per dozen sets, 4 pounds.

CABINET SET

Wrought Steel

No. 850

Patented



Consists of one pair No. 482 Offset Hinges and one only No. 332 Cupboard Catch, complete with screws.

Furnished in all standard plated finishes.

Each set wrapped separately and packed one dozen sets in a carton.

Weight, per dozen sets, 3 $\frac{3}{4}$ pounds.

NO. 851, HALF SURFACE—Same design as No. 850, but packed with No. 483 Half Surface Hinges for flush doors.

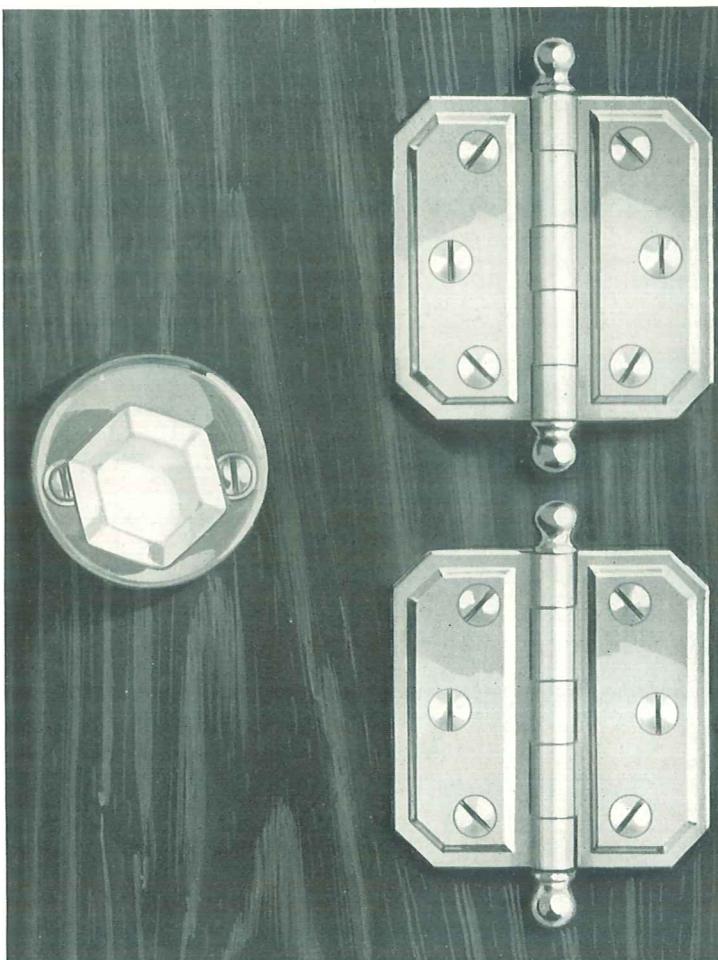
Weight, per dozen sets, 3 $\frac{3}{4}$ pounds.

NO. 852, FULL SURFACE—Same as above except having No. 484 Full Surface Hinges.

Weight, per dozen sets, 4 $\frac{1}{4}$ pounds.

CABINET SET**Wrought Steel****No. 799**

Patented



Set consists of one pair No. 469 embossed Surface Hinges, and one only No. 330 Glass Knob Cupboard Catch.

Furnished in all standard finishes; for list, see page 175.

Each set wrapped separately with screws and packed one dozen sets in a carton.

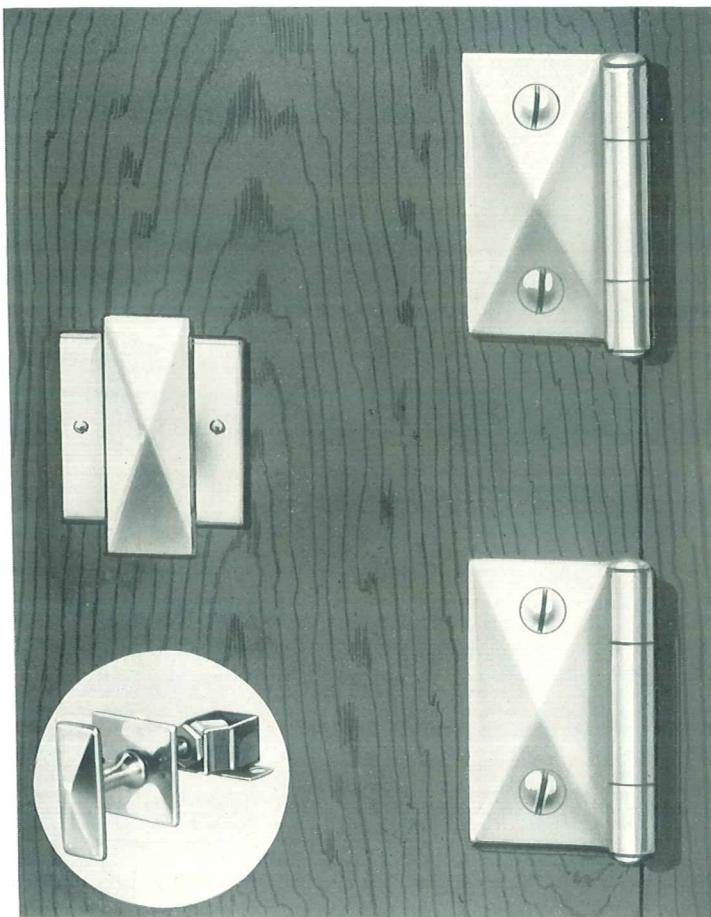
Weight, per dozen sets, $4\frac{1}{4}$ pounds.

CABINET SET

Wrought Steel

No. 951

Patented



Cut Actual Size

Designed for use on flush doors on cupboards and cabinets.

This set consists of one pair No. 493 Half Surface Hinges and one only No. 734 Friction Catch.

Furnished in all standard plated finishes.

Each set wrapped separately with screws, one dozen sets in a carton.

Weight, per dozen sets, 3 pounds.

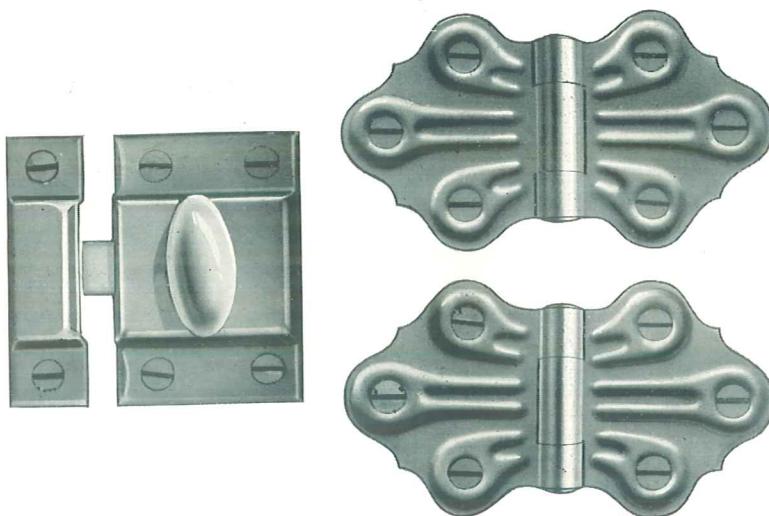
NO. 952, FULL SURFACE—Identical to the No. 951 except that No. 494 Full Surface Hinges are supplied.

Weight, per dozen sets, 3 pounds.

CABINET DOOR SET

Wrought Steel

No. 478



For flush doors. The No. 478 Cabinet Set consists of one pair No. 174 Cloverleaf Surface Hinges and one No. 304 Cupboard Catch.

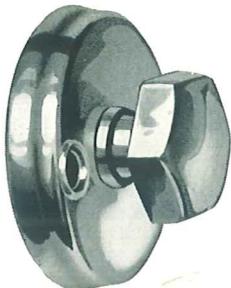
Furnished in all standard finishes; for list, see page 175.

Each complete set, including screws, is wrapped separately.

Packed one dozen in a carton.

Weight, per dozen sets, 3 pounds.

CABINET DOOR AND DRAWER PULLS



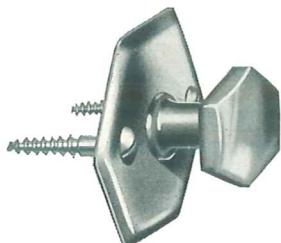
No. 329

Designed to match the No. 328 Cabinet Catch. Case and hexagon knob are of solid brass. Case is $1\frac{1}{2}$ -inches in diameter.

Furnished in all standard plated finishes; for list, see page 175.

Packed one in an envelope with screws, one dozen in a carton.

Weight, per dozen, $1\frac{1}{4}$ pounds.



No. 729

Made of steel with solid brass knob. Base is $1\frac{1}{2}$ -inches in diameter, knob $\frac{3}{4}$ -inch.

Furnished in all standard finishes.

Packed one in an envelope with screws, one dozen in a carton.

Weight, per dozen, 1 pound.



No. 331

Case is of solid brass $1\frac{1}{2}$ -inches in diameter. Glass knob securely seated, cannot work loose nor pull out.

Furnished in all standard finishes.

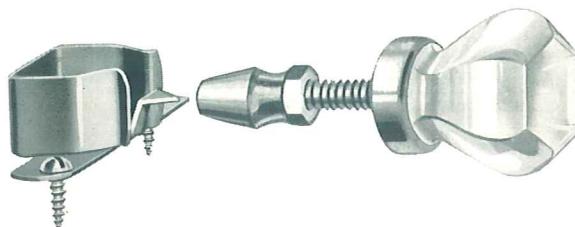
Packed one in an envelope with screws, one dozen in a carton.

Weight, per dozen, $1\frac{1}{4}$ pounds.

FRICITION CATCHES

No. 726

Patented

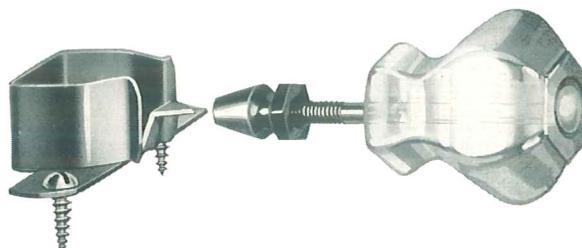


Knob is securely seated in solid brass cup. Will not work loose nor pull out. Spring catch highly tempered with self-locating point for quick and easy application. Solid brass strike. For doors from $\frac{1}{2}$ -inch to $1\frac{3}{8}$ -inches in thickness.

Packed one in an envelope with screws, one dozen in a carton.

Weight, per dozen, $1\frac{1}{4}$ pounds.

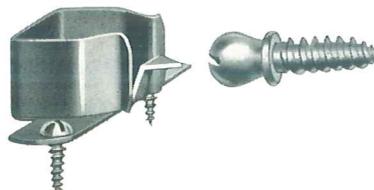
No. 727



Same construction and packaging as the No. 726 shown above except that the Glass Knob is detachable. The bolt is finished in Cadmium.

Weight, per dozen, $1\frac{1}{2}$ pounds.

No. 730



The ball strike is slotted for easy installation. Cadmium finish. Catch is of blued spring steel. Has self-locating point for quick and easy application.

Packed one in an envelope with screws, one-quarter gross in a carton.

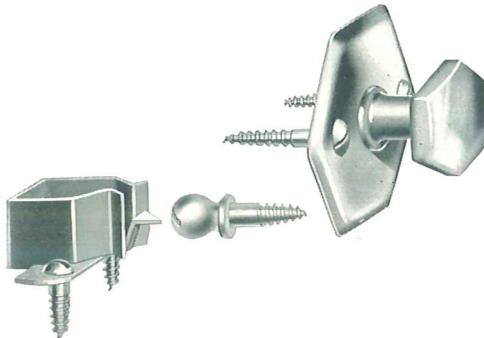
Weight, per gross, 7 pounds.

FRICTION CATCHES

Wrought Steel

No. 728

Patented



For all types of cabinet doors. Latch has self-locating point for quick and easy application.

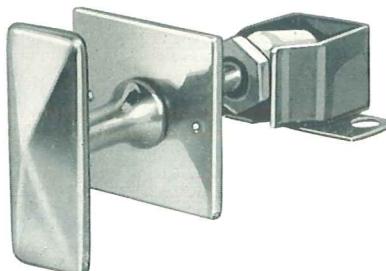
Furnished in any finish.

Packed one set in an envelope with screws, one dozen in a carton.

Weight, per dozen, 1 pound.

No. 734

Patented



Similar in design to the No. 332 Catch. Handle is rigid and the Catch is identical to the No. 726 Friction Catch in installation and operation.

Furnished in all standard finishes.

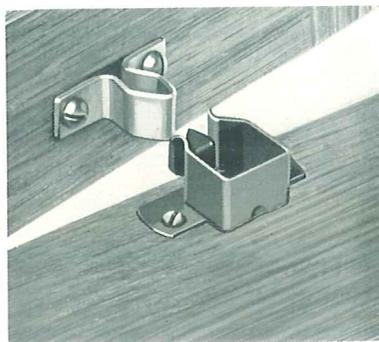
Packed one set in an envelope with screws, one dozen in a carton.

Weight, per dozen, $1\frac{1}{4}$ pounds.

FRICITION CATCHES

Wrought Steel

No. 724

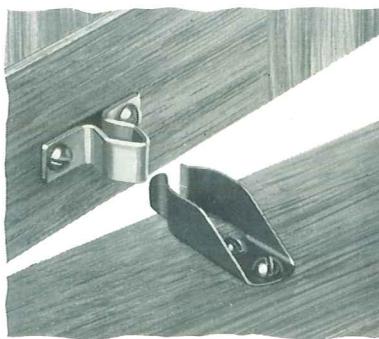


Spring catch is of highly tempered, blued steel. Has self-locating point for quick and easy application. Strike and screws are Cadmium plated.

Packed one set with screws in an envelope, one-quarter gross in a carton.

Weight, per gross, $5\frac{3}{4}$ pounds.

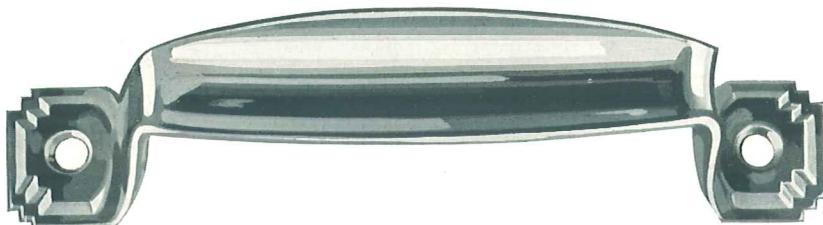
No. 725



Spring catch is of blued steel. Strike and screws are Cadmium plated.

Packed one set in an envelope with screws, one-quarter gross in a carton.

Weight, per gross, $5\frac{3}{4}$ pounds.

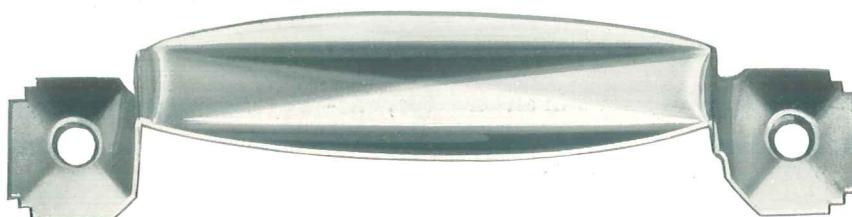
DRAWER PULLS**Wrought Steel****No. 116**

An attractive pull matching in design the No. 750, No. 751 and No. 752 Cabinet Sets. Overall length, $4\frac{1}{2}$ inches.

Furnished in all standard plated finishes.

Packed one dozen in a carton with screws.

Weight, per dozen, 1 pound.

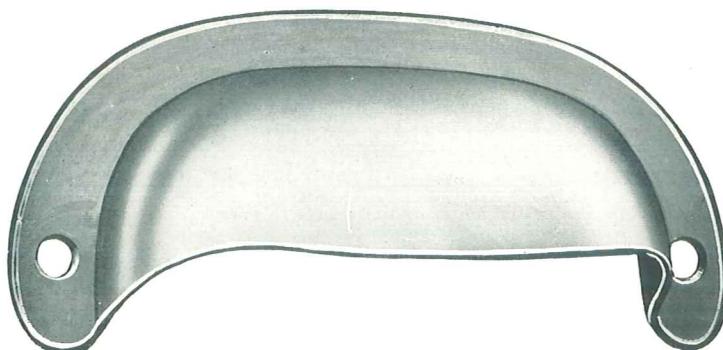
No. 117

A beautifully designed drawer pull to match Cabinet Sets Nos. 951, 952, 850, 851 and 852. Pull is $4\frac{1}{2}$ inches overall.

Furnished in all standard plated finishes.

Packed one dozen in a carton with screws.

Weight, per dozen, 1 pound.

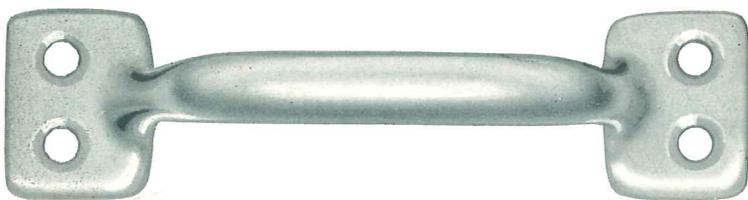
No. 115

Made in $3\frac{1}{4}$ -inch size only. Furnished in all standard plated finishes.

Packed one-quarter gross in a box with screws.

Weight, per gross, 10 pounds.

No. 115-B. Same as above, except made of solid brass.

BAR SASH LIFTS**Wrought Steel****No. 315**

Made in 4-inch and 5-inch sizes.

Furnished in all standard plated finishes.

Packed one dozen in a box with screws, one gross in a case.

Weight, per gross, 4-inch, $14\frac{1}{4}$ pounds.

5-inch, $21\frac{1}{4}$ pounds.

No. 316

Same as No. 315 Lift except made of cast iron.

Supplied only in the 4-inch size.

Furnished in all standard finishes.

Packed one dozen with screws in a carton, one gross in a case.

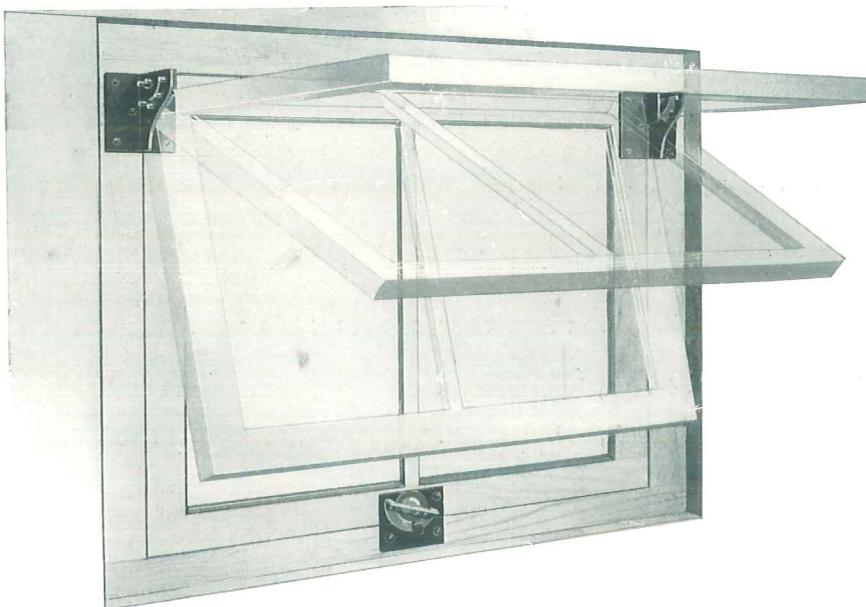
Weight, per gross, 20 pounds.

CELLAR WINDOW SETS

Wrought Steel

No. 83

Patented



A strong, durable cellar window set. The Special Hinges permit the window to be held in three different open positions. Automatic in operation. Easily installed, all parts applied to surface. Window is held rigidly without vibration. The Lock Handle when turned to the right holds the sash securely against the stops. When turned to the left it releases the sash and starts the window.

Finishes: Japanned and Cadmium.

Packed one set in a box with screws, one dozen in a carton.

Weight, per dozen sets, $11\frac{1}{4}$ pounds.

No. 93

Similar in material, construction, finish, packaging and operation to the No. 83 Set shown above except that the hinge parts and lock strike are to be mortised.

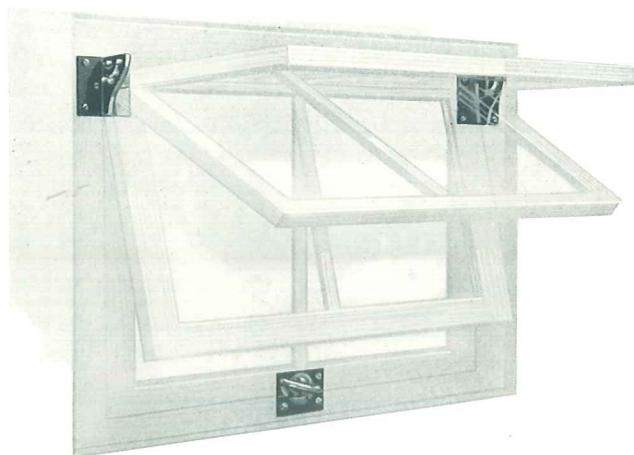
Weight, per dozen sets, $11\frac{1}{4}$ pounds.

CELLAR WINDOW SETS

Wrought Steel

No. 183

Patented



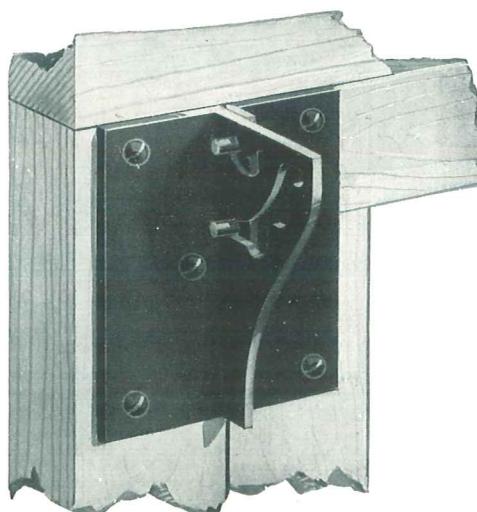
Similar in construction to the No. 83 but designed for light or average weight windows. A very popular set with the trade.

Set consists of two special Hinges and one Handle Lock.

Finishes: Japanned and Cadmium.

Packed one set in a box, one dozen in a carton.

Weight, per dozen, 8 pounds.

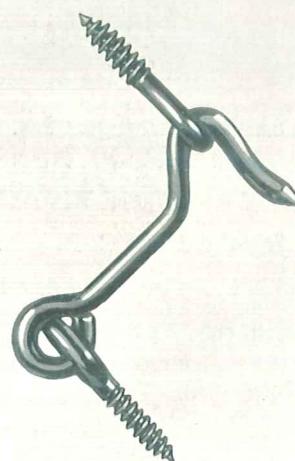
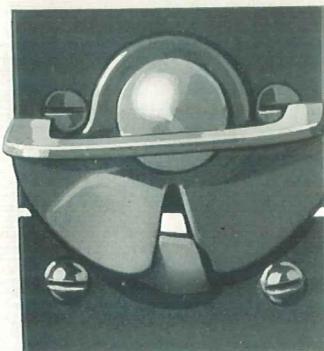
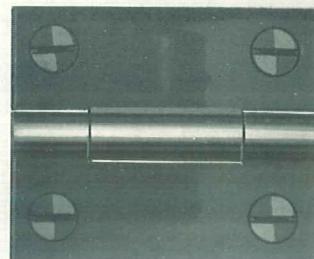
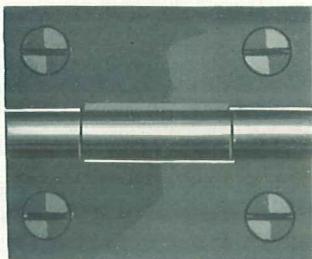


Application and Construction of Hinge.

CELLAR WINDOW SET

Wrought Steel

No. 283



This Cellar Window Set consists of:

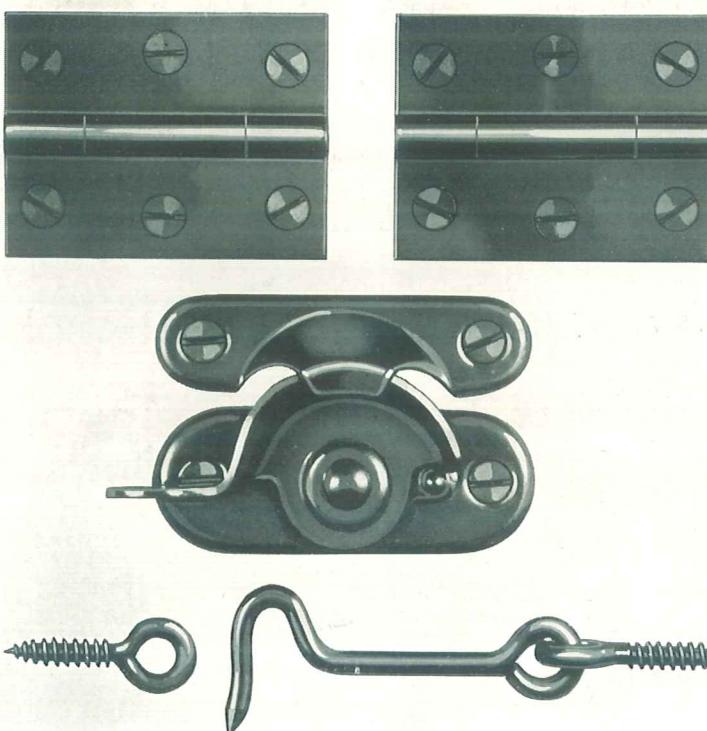
- 1 Pair 2-inch Light Narrow Tight Pin Butts
- 1 No. 187 Combination Lock and Handle
- 1 2-inch Hook and Eye

Lock and Handle strongly made of steel with truss head and galvanized shoulder rivet. Will not bind, rust nor stick fast. A turn to the right securely locks the window, a turn to the left releases the window and starts it to open.

Finishes: Japanned and Cadmium.

Packed one set in a box with screws, one dozen in a carton.

Weight, per dozen, 5 pounds.

CELLAR WINDOW SET**Wrought Steel****No. 383**

The No. 383 Set is composed of the following parts:

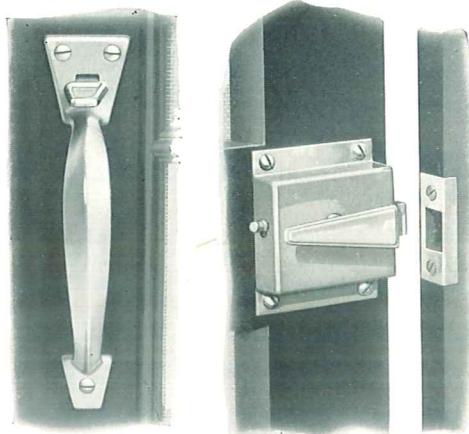
- 1 Pair 2-inch Light Narrow Butts with Screws
- 1 No. 320 Sash Lock and Screws
- 1 2½-inch Hook and Eye

Packed one set in a box, one dozen sets in a carton, one gross in a case.

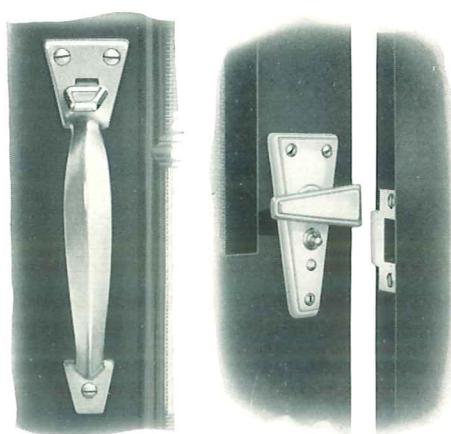
Finishes: Japanned and Cadmium.

Weight, per dozen, 5 pounds.

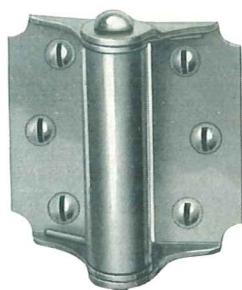
COMBINATION SCREEN AND STORM DOOR SETS



No. 527 Rim Latch



No. 528 Mortise Latch



No. 507 Hinge



No. 508 Hinge



No. 511 Hinge



No. 512 Hinge

COMBINATION SCREEN AND STORM DOOR SETS

NO. 244 SCREEN AND STORM DOOR SET

Packed with one pair No. 507 Spring Hinges and one only No. 527 Rim Latch.
Furnished in all standard plated finishes.

Weight, per dozen sets, 19 pounds.

NO. 245 SCREEN AND STORM DOOR SET

Same as above except packed with No. 528 Mortise Latch.

Weight, per dozen sets, 19 pounds.

NO. 246 SCREEN AND STORM DOOR SET

Packed with one pair No. 508 Spring Hinges and one only No. 527 Rim Latch.
Furnished in all standard plated finishes.

Weight, per dozen sets, 19 pounds.

NO. 247 SCREEN AND STORM DOOR SET

Same as above except packed with No. 528 Mortise Latch.

Weight, per dozen sets, 19 pounds.

NO. 240 SCREEN AND STORM DOOR SET

Packed with one pair No. 511 Adjustable Spring Hinges and one only No. 527 Rim Latch. Furnished in all standard plated finishes.

Weight, per dozen sets, 20 pounds.

NO. 241 SCREEN AND STORM DOOR SET

Same as above except packed with No. 528 Mortise Latch.

Weight, per dozen sets, 20 pounds.

NO. 242 SCREEN AND STORM DOOR SET

Packed with one pair No. 512 Adjustable Spring Hinges and one only No. 527 Rim Latch. Furnished in all standard plated finishes.

Weight, per dozen sets, 20 pounds.

NO. 243 SCREEN AND STORM DOOR SET

Same as above except packed with No. 528 Mortise Latch.

Weight, per dozen sets, 20 pounds.

SCREEN DOOR SET

Wrought Steel

No. 150



A substantial set consisting of the following:

- 1 Pair No. 164 Surface Hinges
- 1 No. 32 Door Pull
- 1 2½-inch Hook and Eye
- 1 No. 3 Door Spring with Hooks

Finishes: Japanned, Cadmium, Antique Copper, Dull Brass and Sanded Brass.

Packed one set in a box with screws, one dozen in a carton.

Weight, per dozen sets, 10¼ pounds.

DOOR SET

Wrought Steel

No. 250



For screen and storm doors.

The detachable and interchangeable features of the No. 264 Hinges included in this set make it one of the most popular on the market. Designed for surface application.

Doors may be removed or changed from one type to the other without removing pins or screws. Simply open the door half way and lift off. Hinges are reversible for left or right-hand doors.

Set consists of the following parts:

- 1 Pair No. 264 Detachable Hinges
- 1 No. 32 Door Pull
- 1 2½-inch Hook and Eye
- 1 No. 3 Door Spring with Hooks

Finish: Japanned.

Packed one set in a box with screws, one dozen in a carton.

Weight, per dozen sets, 11½ pounds.

SCREEN DOOR SET

Wrought Steel

No. 5050



No. 5050 Set is made up of the following parts:

1 Pair No. 505 Spring Hinges

1 No. 32 Door Pull

1 $2\frac{1}{2}$ -inch Hook and Eye

Finishes: Japanned, Antique Copper, Dull Brass and Sanded Brass.

Packed one set in a box with screws, one dozen in a carton.

Weight, per dozen sets, 10 pounds.

SCREEN DOOR SET
Wrought Steel
No. 5060



A spring hinge set for light doors.

Set consists of:

- 1 Pair No. 506 Spring Hinges
- 1 No. 35 Door Pull
- 1 2½-inch Hook and Eye

Finish: Japanned.

Packed one set in a box with screws, one dozen in a carton.

Weight, per dozen sets, 8¼ pounds.

SCREEN DOOR SET

Wrought Steel

No. 86

Patented



Hinges designed for use with the average weight screen and storm doors. With this set doors may be taken down without removing screws.

Set consists of:

- 1 Pair No. 80 Detachable Spring Hinges
- 1 No. 32 Door Pull
- 1 2½-inch Hook and Eye

Finish: Japanned.

Packed one set in a box with screws, one dozen in a carton.

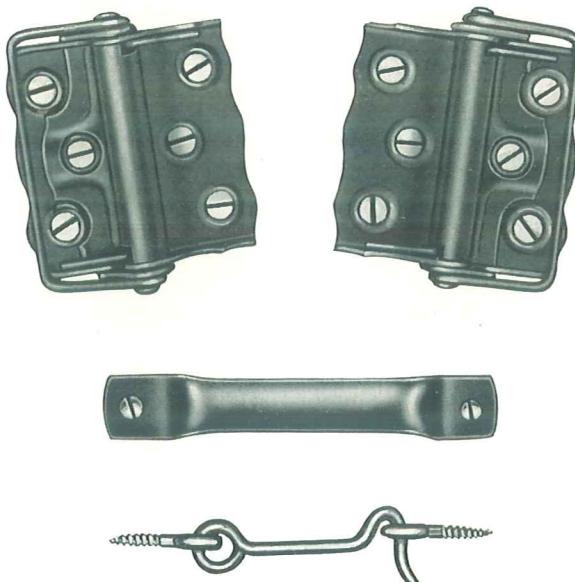
Weight, per dozen sets, 10 pounds.

SCREEN DOOR SET

Wrought Steel

No. 85

Patented



This set is identical to the No. 86 Set shown on the preceding page, with the addition of housings to protect the hinge springs.

The hinges being detachable, doors may be taken down without removing screws.

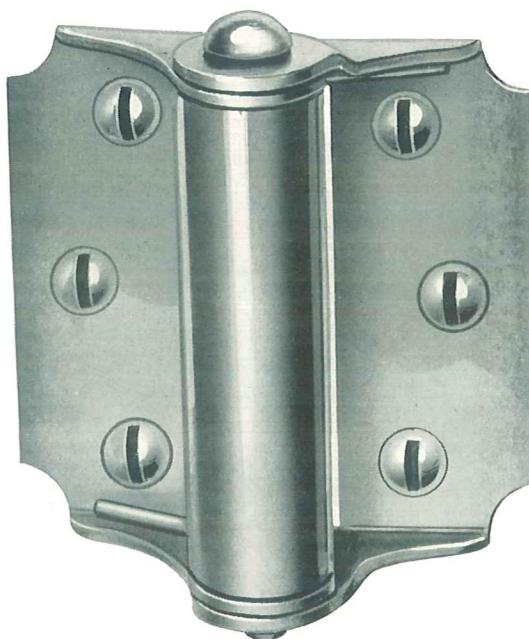
Each set consists of:

- 1 Pair No. 81 Detachable Spring Hinges
- 1 No. 32 Door Pull
- 1 2½-inch Hook and Eye

Furnished in Japanned and all standard plated finishes.

Packed one set in a box with screws, one dozen sets in a carton.

Weight, per dozen sets, 11¾ pounds.



Actual Size

A strong, durable spring hinge.

Has powerful coil spring, fully enclosed.

May be applied on either right or left-hand doors.

Made in 3-inch size only.

Designed for all types of screen or storm doors and combination screen and storm doors.

Furnished in Japanned, Cadmium and all standard plated finishes.

Packed one pair in a box with screws, one dozen pairs in a carton.

Weight, per dozen pairs, 11 pounds.



Made of heavy steel and for full surface application.

Large spring is adjustable for doors of various weights, and is completely enclosed.

Made in 3-inch size only.

Designed for all types of screen or storm doors and combination screen and storm doors.

Furnished in Japanned, Cadmium and all standard plated finishes.

Packed one pair in a box with screws; one dozen pairs in a carton.

Weight, per dozen pairs, 12 pounds

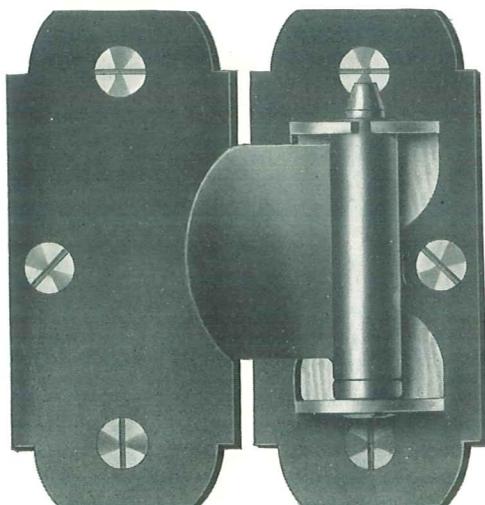
SURFACE HINGE**Loose Pin****Wrought Steel****No. 164**

Size 3 x 2 $\frac{1}{2}$ " with one piece Ball Tip Pin. One-quarter inch offset may be had by removing pin and reversing one leaf, which eliminates blocking behind hinge when 1 $\frac{1}{8}$ -inch door is hung to $\frac{7}{8}$ -inch frame.

Finishes: Japanned, Cadmium, Antique Copper, Dull Brass and Sanded Brass.

Packed with round head screws, one-half dozen pairs in a carton.

Weight, per dozen pairs, 6 $\frac{1}{2}$ pounds.

SURFACE HINGE**Detachable****Wrought Steel****No. 264**

Size 3 x 2 $\frac{1}{2}$ ", detachable and reversible surface hinge. For use on screen and storm doors. Right or left-hand. Door may be removed by opening half way and lifting off.

Finish: Japanned.

Packed one dozen pairs with screws in a carton.

Weight, per dozen pairs, 7 $\frac{1}{2}$ pounds.

Supplied with extra plates for storm doors if desired.

SPRING HINGES

Wrought Steel

No. 505

Size 3 x 2 $\frac{1}{2}$ ", for average weight screen or storm doors.

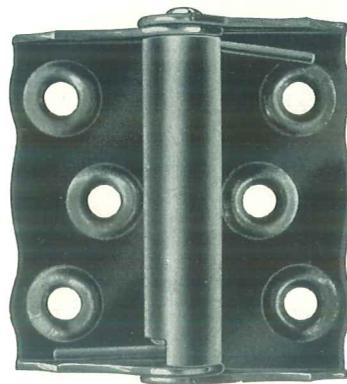
Spring is protected by a steel housing.

Furnished in Japanned and all standard plated finishes.

Packed one dozen pairs in a carton, Japanned finish without screws; plated finishes packed with screws.

Weight, per dozen pairs, without screws, 7 $\frac{1}{2}$ pounds.

Weight, per dozen pairs, with screws, 9 pounds.



No. 506

Same size and construction as the No. 505 shown above, except that the spring is not enclosed.

Finish: Japanned.

Packed one dozen pairs in a carton without screws.

Weight, per dozen pairs, 6 pounds.



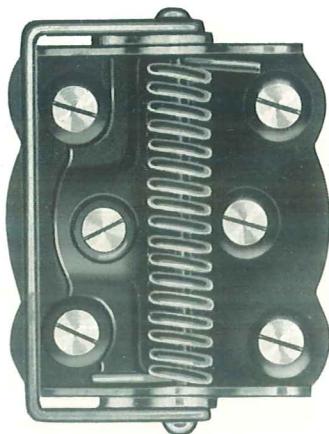
SPRING HINGES

Detachable

Wrought Steel

No. 80

Patented



Size 3 x $2\frac{1}{2}$ " with spring of sufficient strength for average weight screen and storm doors. Detachable by raising bail and lifting door away. Not necessary to remove screws.

Supplied in No. 86 Screen Door Sets.

Finish: Japanned.

Packed one dozen pairs in a carton, no screws.

Weight, per dozen pairs, $7\frac{1}{2}$ pounds.

No. 81

Size 3 x $2\frac{1}{2}$ ", and identical to the No. 80 shown above except that the spring is covered with a steel housing. Furnished in Japanned, Cadmium and all standard plated finishes.

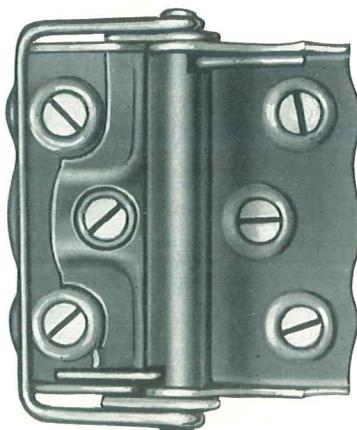
Supplied in No. 85 Screen Door Sets.

Packed one dozen pairs in a carton.

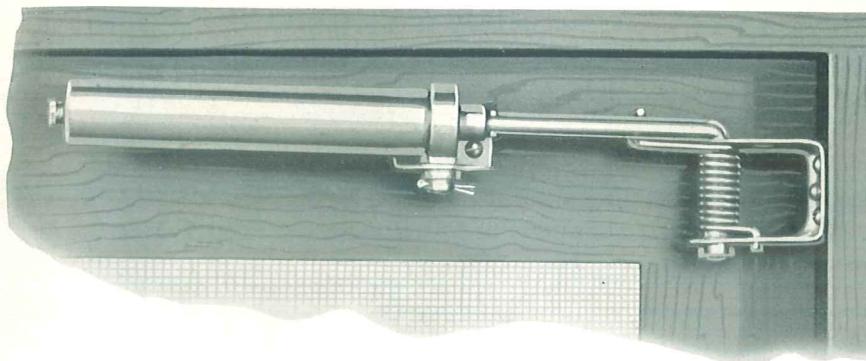
No screws furnished with Japanned finish; plated finishes, with screws.

Weight, per dozen pairs, without screws, $9\frac{1}{2}$ pounds.

Weight, per dozen pairs, with screws, 11 pounds.



SCREEN DOOR CHECK AND CLOSER No. 230



For use with right or left-hand doors.

Tube is made of solid brass, finished in natural dull brass and lacquered.

Strong, oil-tempered control spring is easily accessible for adjustment to different weights of doors.

Easily and quickly applied.

Door speed regulation is positive and easily controlled.

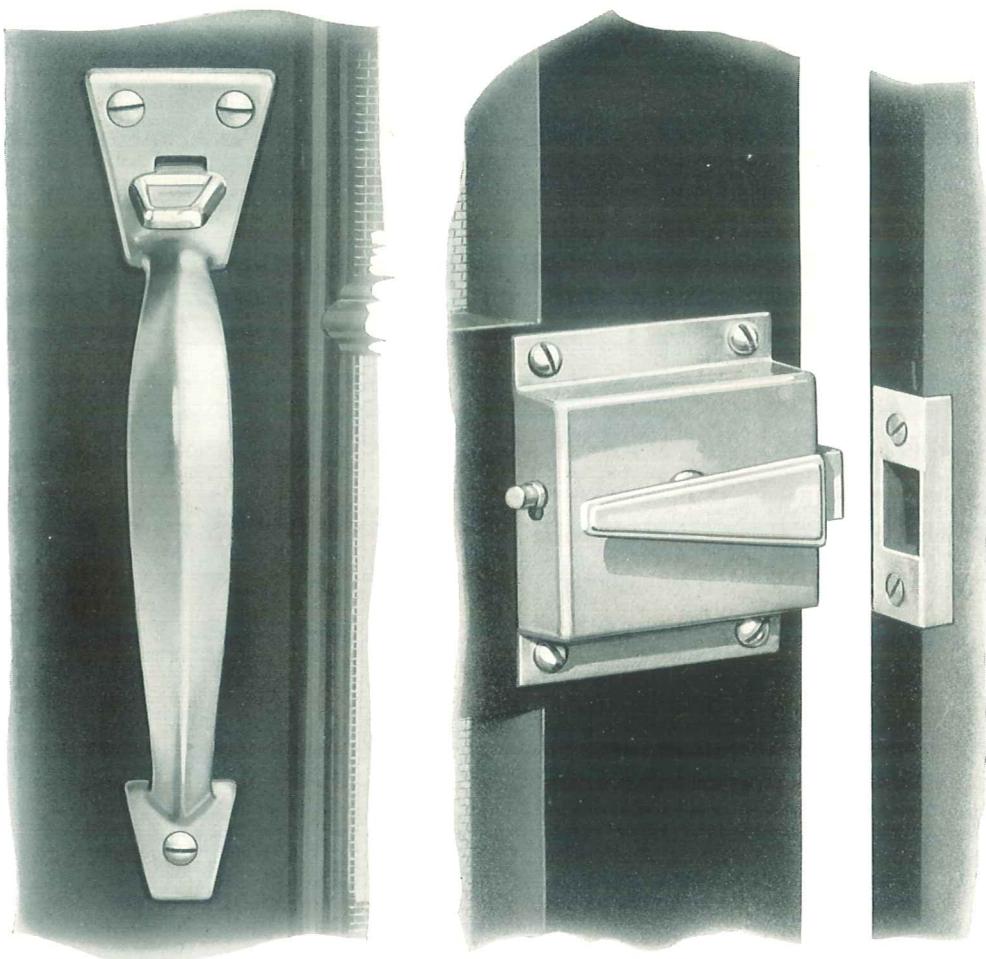
No tools required to remove check when doors are taken down.

Positively prevents slamming and damage to doors.

Packed one in a carton with screws, one dozen in a case.

Weight, per dozen, 18 pounds.

RIM SCREEN DOOR LATCH
Wrought Steel
No. 527



Beautiful, original design.

Outside Handle of generous size.

Action is positive and smooth. Slide lock conveniently placed.

For doors from $\frac{7}{8}$ -inch to $1\frac{1}{2}$ -inches in thickness.

Furnished in all standard plated finishes.

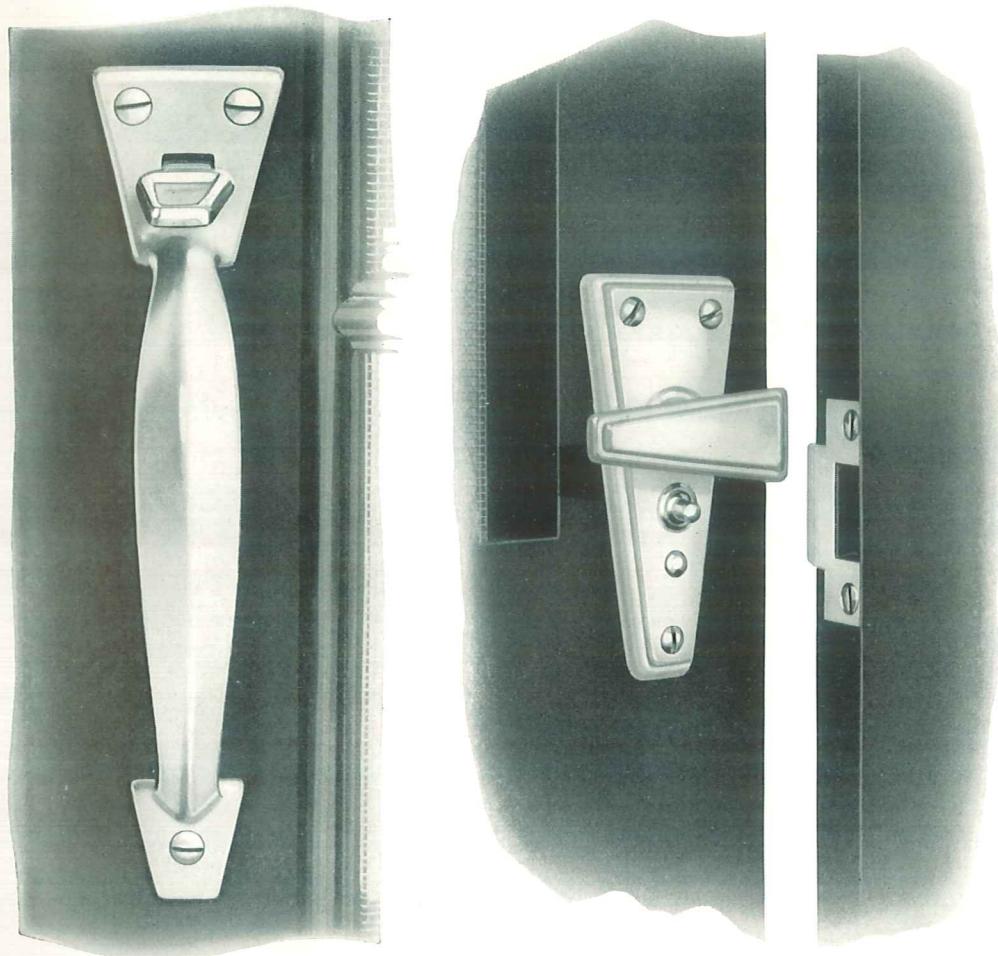
Packed one set in a box with screws.

Weight, per dozen, $8\frac{1}{2}$ pounds.

MORTISE SCREEN DOOR LATCH

Wrought Steel

No. 528



A new and original lock latch for storm and screen doors.

Handle Pull is of generous size, beautifully designed with thumb piece to match.
Has an improved type lock.

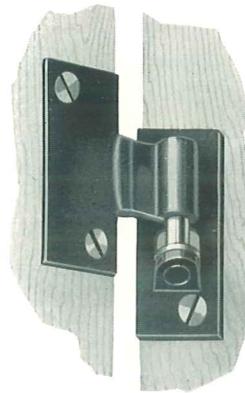
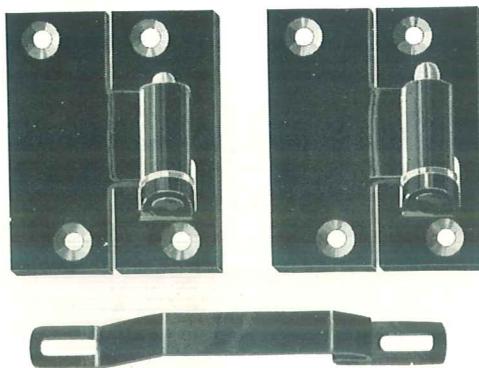
For doors from $\frac{7}{8}$ -inch to $1\frac{1}{2}$ -inches thick.

Furnished in all standard plated finishes.

Packed one latch complete with screws in a box.

Weight, per dozen, $8\frac{1}{2}$ pounds.

SCREEN AND STORM SASH SET No. 450



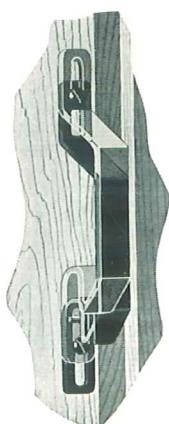
No. 464 Hinge

A new departure in hanging screens and storm windows. With the No. 450 Set, screens may be swung around against the side wall leaving the opening entirely clear for cleaning windows or sills.

The hinges have solid brass pins to prevent rust and are reversible for right or left-hand application.

One pin in each pair of hinges is made slightly longer than the other to simplify interchanging of screen and storm windows.

When screen or storm window is closed it is held securely by the special catch-pull which automatically drops over a pin.



Extra plates may be had to interchange screens and storm windows.

Finishes: Japanned and Cadmium.

Each set packed in an envelope with screws, one dozen sets in a carton.

Extra plates with screws packed one dozen sets in a carton.

Weight, per dozen sets, 5 pounds.

Extra plates, weight, per dozen sets, 3 pounds.

No. 37 Pull

SASH HANGER

Wrought Steel

No. 375



Designed for screen and storm sash with flush casings.

The long strap supports the sash without danger of the screws pulling out.

Top section is $\frac{3}{4}$ -inch wide with strong, well-formed hook. The extra bottoms make exchanging the sash a very simple operation.

Finishes: Japanned and Cadmium.

Packed one set in an envelope with screws, one dozen sets in a carton.

Weight, per dozen sets, $2\frac{1}{4}$ pounds.

Extra bottom plates may be had in both finishes packed one pair in an envelope with screws, one dozen pairs in a carton.

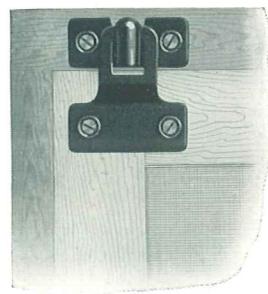
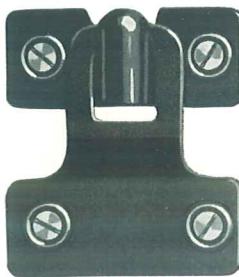
SASH HANGERS

Wrought Steel

No. 275



Two-Thirds Size



Method of Applying

For full length screens and storm sash with flush casings.

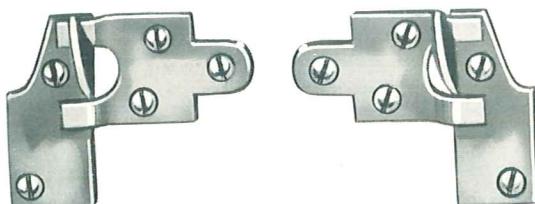
Finishes: Japanned and Cadmium.

Size—Hook overall, $2 \times \frac{3}{4}''$; Eye, $2 \times 1\frac{7}{8}''$.

Packed one set in an envelope with screws, one dozen sets in a carton.

Weight per dozen, $2\frac{1}{4}$ pounds.

No. 175



For storm and screen sash and suitable for full length or half sash.

Easily applied and will allow sash to swing out at bottom for cleaning or ventilation.

Finishes: Japanned and Cadmium.

Packed one set in an envelope with screws, one dozen sets in a carton.

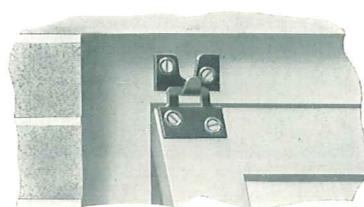
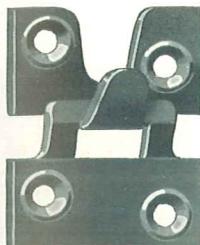
Weight, per dozen sets, $2\frac{1}{2}$ pounds.

Extra sash parts may be had, if desired.

SASH HANGER

Wrought Steel

No. 475



Sash is held securely. May be used on both screen and storm windows.

Finishes: Japanned and Cadmium.

Packed one set in an envelope with screws, one dozen sets in a carton.

Weight, per dozen sets, 1½ pounds.

Extra bottoms for hanging storm windows in either finish are packed one pair in an envelope with screws, one dozen pairs in a carton.

Weight, per dozen pairs, 1 pound.

SASH HANGER SET

Wrought Steel

No. 514



Set consists of one pair No. 475 Sash Hangers and one 1½-inch Hook and Eye.

Finishes: Japanned and Cadmium.

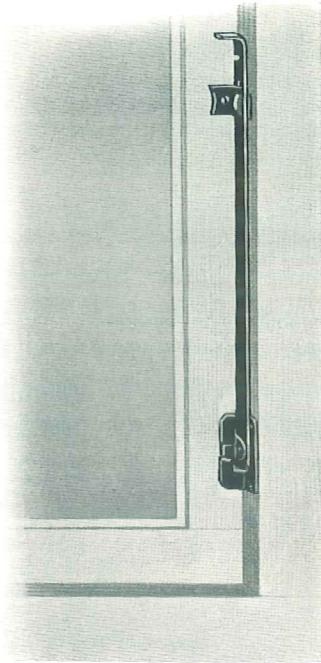
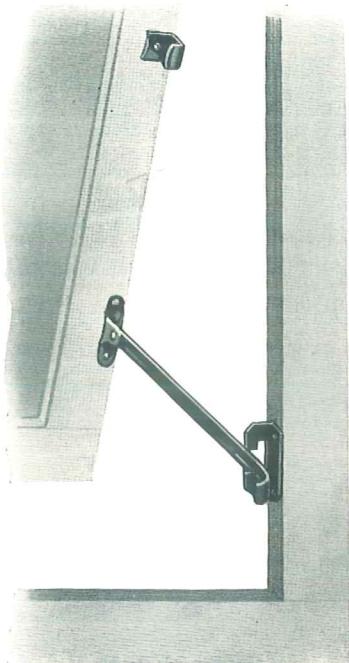
Packed one set in an envelope with screws, one dozen sets in a carton.

Weight, per dozen sets, 2 pounds.

STORM SASH ADJUSTER

Wrought Steel

No. 180



Holds window open for cleaning or ventilation. Serves as a positive lock when window is closed.

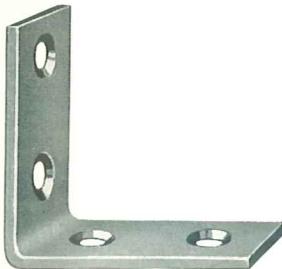
Improved design, heavier material and better construction than is usually to be had in storm sash adjusters.

Finishes: Japanned and Cadmium.

Packed one set complete with screws in an envelope, one dozen sets in a carton.

Weight, per dozen sets, $4\frac{3}{4}$ pounds.

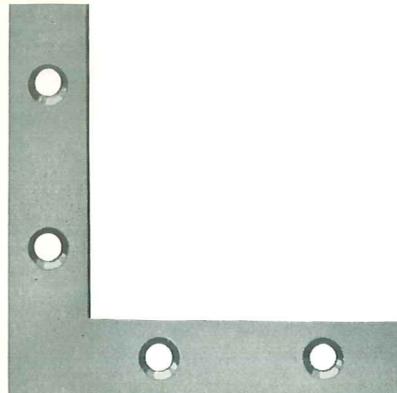
CORNER IRON
Wrought Steel
No. 51



Size Inches	Width Inches	Number of Holes	Weight per Dozen Pounds
1 x 1	1/2	2	1/4
1 1/2 x 1 1/2	5/8	4	1/2
2 x 2	5/8	4	1
2 1/2 x 2 1/2	5/8	4	1
3 x 3	3/4	4	2 1/2
3 1/2 x 3 1/2	3/4	4	3
4 x 4	7/8	4	4
5 x 5	1	6	5 3/4
6 x 6	1 1/8	6	7 3/4

Sizes up to and including $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{3}{4}$ " packed two dozen in a carton; larger sizes, tied one dozen in a bundle, no screws.

FLAT CORNER IRON
Wrought Steel
No. 71



Size Inches	Width Inches	Number of Holes	Weight per Dozen Pounds
2 x 2	3/8	4	1/2
2 1/2 x 2 1/2	3/8	4	1 1/2
2 1/2 x 2 1/2	1/2	4	3/4
3 x 3	1/2	4	3/4
3 x 3	5/8	4	1
3 1/2 x 3 1/2	1/2	4	1 1/4
3 1/2 x 3 1/2	5/8	4	1 1/4
3 1/2 x 3 1/2	3/4	4	1 1/2
4 x 4	3/4	4	1 3/4

Packed two dozen in a carton, no screws.

MENDING PLATE
Wrought Steel
No. 72



Length Inches	Width Inches	Number of Holes	Weight per Dozen Pounds
3	5/8	4	3/4
4	5/8	4	1
5	5/8	4	1 1/2
6	3/4	4	2 3/4
8	7/8	4	4

Tied one dozen in a bundle, no screws.

WIRE HOOKS AND EYES No. 39



Size Inches	Number of Gross in Box	Weight per Gross Pounds
1½	1	3
2	½	4½
2½	½	6½
3	½	9
3½	½	11½
4	½	12½

Furnished in Bright Steel and Cadmium finishes.

TURN BUTTON Wrought Steel No. 721



1¾-inch size only. Finishes: Japanned and Cadmium.

Packed one gross in a box. Screws not furnished.

Weight, per gross, 2¼ pounds.

No. 721 SCS. Same as above but with screws. Weight, per gross, 2½ pounds.

TURN BUTTON Wrought Steel No. 722



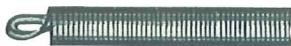
1¾-inch size only. One end offset ¼-inch. Finishes: Japanned and Cadmium.

Packed one gross in a box. Screws not furnished.

Weight, per gross, 2¼ pounds.

DOOR SPRING

No. 1525



Number	Size of Wire	Overall Length Inches	Number of Dozen in Carton	Weight per Dozen Pounds
2	.039	16 $\frac{3}{8}$	1	1 $\frac{1}{2}$
3	.049	16 $\frac{3}{8}$	1	2
4	.056	16 $\frac{3}{8}$	1	2 $\frac{1}{4}$
5	.060	16 $\frac{1}{2}$	1	3 $\frac{1}{4}$
6	.155	16 $\frac{1}{2}$	1	3 $\frac{3}{4}$

Supplied with hooks.

Finish: Japanned.

SCREEN DOOR BRACE

No. 162



Furnished in two sizes, 21-inch and 42-inch.

Prevents screen and combination doors from sagging.

Brace is made of steel with malleable turnbuckle adjustment, and is threaded sufficiently to take up all sagging.

Adjustment can be made with a nail or screw driver.

Finishes: Japanned and Cadmium.

Packed one dozen in a box with screws.

Weight, per dozen, 21-inch, 2 pounds.

42-inch, 3 pounds.

COAT AND HAT HOOK

Wrought Steel

No. 16



Made in 3-inch, 4-inch and 5-inch sizes.

Furnished in all standard finishes.

Packed one dozen sets in a carton with screws.

Weight, per dozen, 3-inch, $1\frac{1}{4}$ pounds.

4-inch, $1\frac{3}{4}$ pounds.

5-inch, $2\frac{1}{4}$ pounds.

COAT AND HAT HOOK

Cast Iron

No. 18



A strong, smoothly finished hook.

Projection, 3-inches.

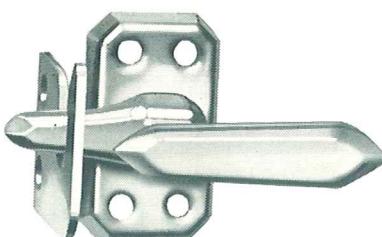
Furnished in all standard finishes.

Packed one dozen in a carton with screws.

Weight, per dozen, 1 pound.

CASEMENT WINDOW FASTENERS

Patented



No. 238-R with Rim Strike

No. 238-M with Mortise Strike

No. 238-S with Surface Strike

Steel base and strike with cast handle and latch bar.

Furnished in all standard finishes.

Packed regularly with rim strike, one set in an envelope with screws, one dozen sets in a carton. Furnished with mortise or surface strike when so specified.

Weight, per dozen, $3\frac{1}{2}$ pounds.

SURFACE BOLT

Wrought Steel

No. 780



Made in two sizes, 4-inch and 6-inch.

So designed that the operation of the bolt will not affect the finish of woodwork or bolt.

Furnished in all standard finishes.

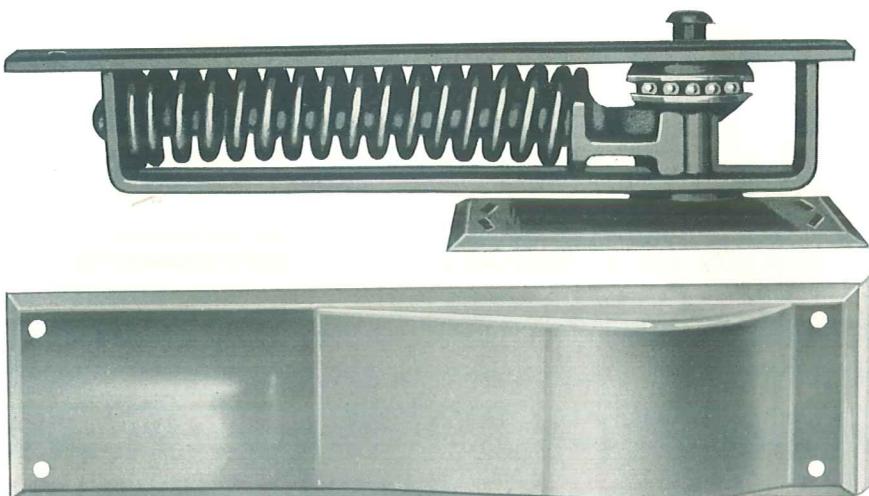
Packed one dozen in a box with screws and strikes.

Weight, per dozen, 4-inch, 2 pounds.

6-inch, $2\frac{3}{4}$ pounds.

FLOOR HINGE

No. 204



Simply constructed. Frame made of $\frac{3}{16}$ -inch steel. Cam made of malleable iron to resist wear. The top of cam extends through ball cone. Bottom extends through floor plate, doubly reinforced, assuring great strength and long service.

Plunger made of malleable iron. Bearing surface very large, approximately 1 inch.

Ball bearings are made of the finest grade of steel. Weight of door is thrown entirely on the bearings as well as the spring thrust. One of the special features of this hinge is the fact that the ball bearings are placed at the highest point of the hinge, away from any dust, grit or water.

Spring, very durable, made of oil tempered steel spring wire.

Finish plate made of cold rolled steel of attractive design.

Furnished in all standard plated finishes; for list, see page 175.

Packed one set complete with screws in a carton, one dozen in a case.

Weight, each, $2\frac{1}{2}$ pounds.

Weight, per case, 35 pounds.

PUSH PLATE

Wrought Steel

No. 203

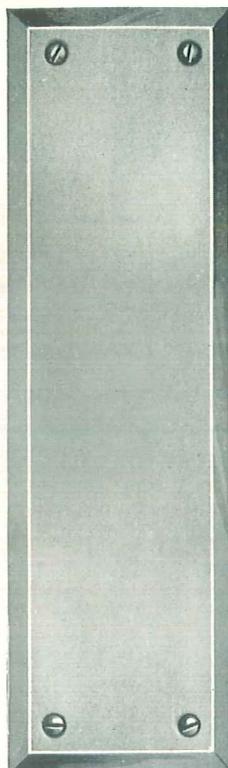


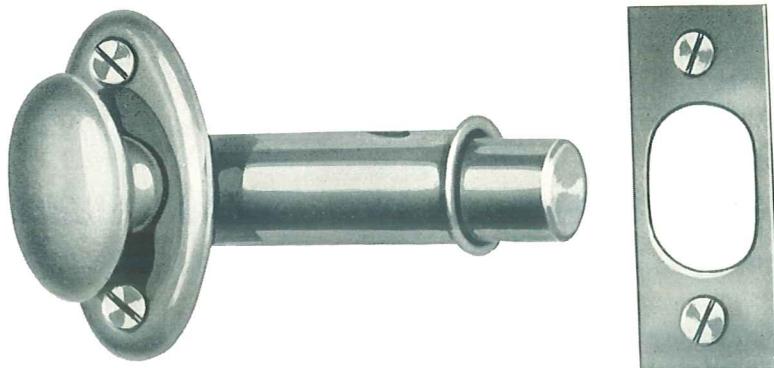
Plate is 3-inches wide by 10-inches long, with wide beveled edges.

Furnished in all standard plated finishes; for list, see page 175.

Packed one-half dozen in a carton. Oval head screws supplied.

Weight, per dozen, 4 pounds.

MORTISE DOOR BOLT No. 302



A great convenience for bath room and bed room doors as no keys are required. Also a very satisfactory night bolt for outside doors.

Made entirely of brass, including strike, with the exception of the machined rack, which is steel.

Strike may be applied to surface or mortised.

Packed with Flat Head, Solid Brass Screws.

Furnished in all standard plated finishes.

Packed separately with screws and strike, one dozen in a carton, one gross in a case.

Weight, per gross, 38 pounds.

BASE KNOB No. 308



Made of cast iron with solid rubber tip. Projection, 3-inch. Wide base adds to rigidity of bumper. Screw projects $\frac{3}{4}$ -inch.

Square shoulder for wrench makes application easy, even in hard wood.

Furnished in all standard plated finishes.

Packed one dozen in a carton, one gross in a case.

Weight, per gross, 14 pounds.

SHELF BRACKET

Wrought Steel

No. 185



Formed from one piece of steel. Girder style of forming gives greatest possible strength. Screw holes located for easy accessibility and greatest holding power.

Supplied in Japanned finish.

Size Inches	Size of Screws Shelf Side	Size of Screws Wall Side	Number of Screw Holes	Number Dozen Pairs in Box	Weight per Dozen Pairs Pounds
4 x 5	3/4 x 8	1 1/4 x 8	6	1	5
5 x 7	3/4 x 8	1 1/4 x 8	6	1/2	7
6 x 8	7/8 x 9	1 1/4 x 9	6	1/2	8 1/2
8 x 10	7/8 x 9	1 1/4 x 9	6	1/4	12
10 x 12	1 x 10	1 3/4 x 10	6	1/4	20

DEALER MODELS

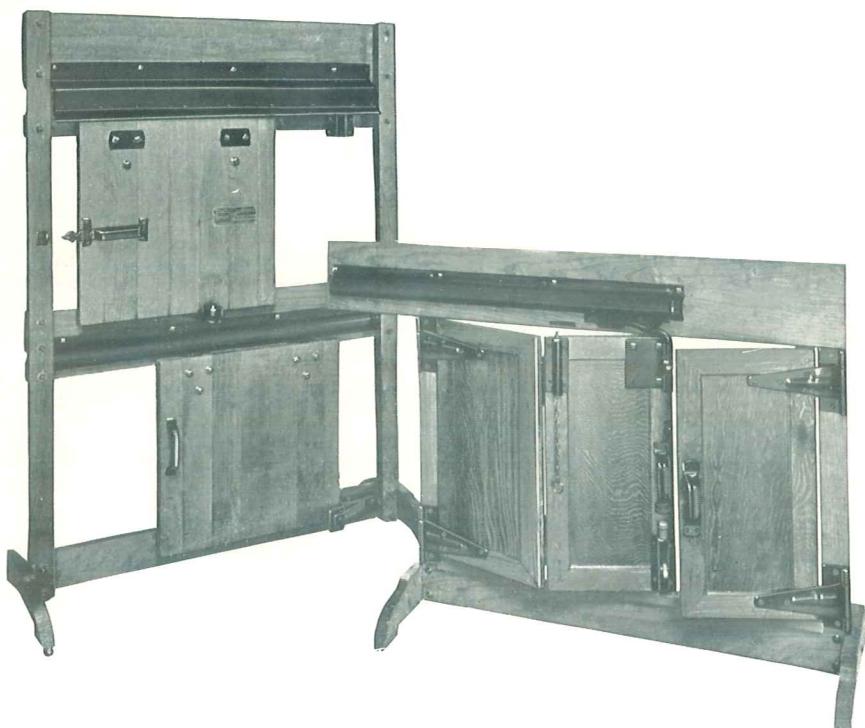


Illustrated above are various items of FRANTZ RED LABEL HARDWARE, mounted on attractive wood display models.

The hardware is full size, and in the regular finishes.

These mounted samples add much to the appearance of any hardware department, and are powerful sales helps. They show the actual appearance and application of the hardware.

DEALER MODELS



These models and those on the preceding page are available to all dealers of FRANTZ RED LABEL HARDWARE, and are supplied at a nominal cost.

A complete display of FRANTZ PRODUCTS is a year round profit maker.

PRICE GROUP OF PLATED FINISHES

Finishes in each of these groups
take same prices

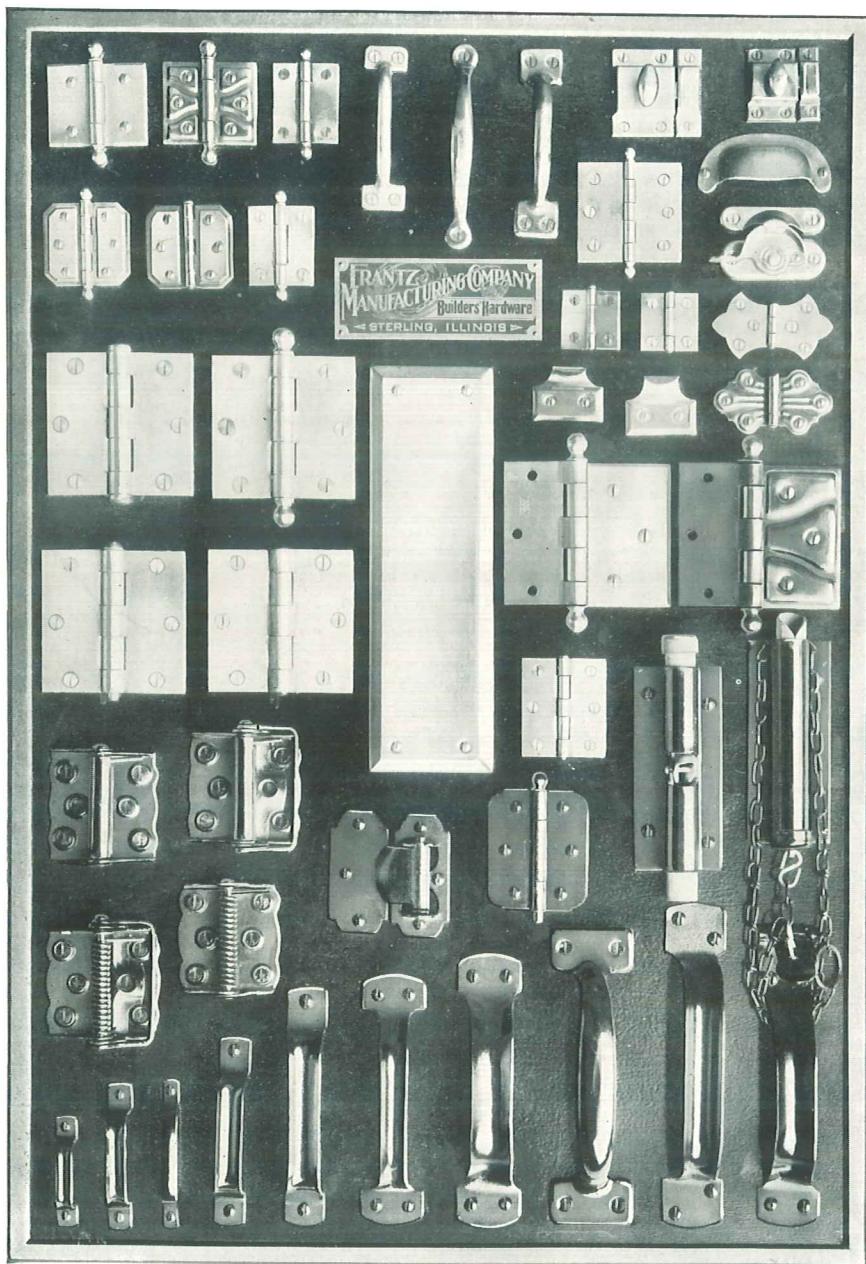
	Symbol	U. S. Govt. Number
GROUP NO. 1	DB..... Dull Brass.....	US 4
	AC..... Antique Copper.....	US 8
	Cad..... Cadmium.....	US 2C
GROUP NO. 2	BB..... Bright Brass.....	US 3
	DBrz..... Dull Bronze.....	US 10
	BBrz..... Bright Bronze.....	US 9
	StatBrz..... Statuary Bronze.....	US 20
	DStatBrz..... Statuary Bronze, Dark.....	
GROUP NO. 3	AB..... Dull Brass, Oxidized and Relieved.....	US 5
	DBSS..... Sanded Brass, Oxidized and Relieved.....	US 6
	SDBrz..... Sanded Bronze, Oxidized and Relieved.....	US 11
	SSB..... Statuary Bronze, Sanded.....	US 21
	EDB..... Electro Dead Black.....	US 19
GROUP NO. 4	N..... Nickel.....	US 14
	DN..... Dull Nickel.....	US 15
	DNS..... Nickel, Sanded.....	US 16
	OIN..... Old Iron.....	

COMPARATIVE SYMBOLS OF HARDWARE FINISHES

U. S. Standard	Frantz	DESCRIPTION	Stanley Works	Yale and Towne	P. & F. Corbin	Russ- win	Penn	Lock- wood
USP	PC	Primed for Painting.....	P	.....	.....	.....	.....	.....
US1B	Jap	Bright Japanned.....	J	.....	J	.....	.....	.....
US1D	DBJap	Dead Black Japanned.....	J1	.....	D	.....	.....	.....
US2C	Cad	Cadmium Plated.....	K	.....	.....	.....	.....	.....
US2G	EGalv	Electro-Galvanized.....	.....	.....	G	.....	.....	.....
US2H	Galv	Hot Galvanized.....	R	.....	.....	.....	.....	.....
US3	BB	Bright Brass.....	C	AZ10	A	10	BB	13½
US4	DB	Dull Brass.....	F	AY22	EA	9	DB	13
US5	AB	Dull Brass, Oxidized and Relieved.....	F4	AY21	KA	9C	DBR	43
US6	DBSS	Sanded Brass Oxidized and Relieved.....	SF4	AX28	SKA	09C	SB	51
US8	AC	Antique Copper.....	D2	CZ27	R	7½	AC	7½
US9	BBrz	Bright Bronze.....	A	BZ10	B	11	BBZ	1
US10	DBrz	Dull Bronze.....	A5	BY22	DB	11D	DBZ	34
US11	AntBrz	Dull Bronze, Oxidized and Relieved.....	A4	BY21	HB	11C	DBZR	23
US12	SDBrz	Sanded Bronze, Oxidized and Relieved.....	SA4	BX13	SHB	011C	SBZ	36½
US14	N	Nickel Plated.....	N	NZ10	E	4	BN	5
US15	DN	Dull Nickel.....	N5	NY10	DE	14	DN	90
US16	DNS	Dull Nickel Sanded.....	SN	NX10	SE	.....	SN	5S
US19	EDB	Electro Dead Black.....	H	FX90	KF	47	IRP	6
US20	StatBrz	Statuary Bronze.....	B	BY25	KB	2	PBZ4	38
US21	SSBrz	Statuary Bronze Sanded.....	SB	BX25	SHB	02	SBZ4	38S
US26	Chr	Bright Chromium Plated.....	CM	DZ10	CR	24	.....	.....
US26D	DChr	Dull Chromium Plated.....	CMD	DY10	CRD	34

STANDARD SAMPLE BOARD

Size 20x30 Inches



Shipping Weight 30 lbs.

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